Service Manual

ORDER NO.
RRV2130

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D498

- **Refer to the service manual RRV2086 for VSX-D508/KUXJI and VSX-D508/KCXJI.**

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX-D498		
KUXJI	○	AC120V	
KCXJI	○	AC120V	

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES :
- *Parts marked by " NSP " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screw adjacent to ▼ mark on the product are used for disassembly.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*

■ CONTRAST TABLE for VSX-D498/KUXJI

VSX-D498/KUXJI and VSX-D508/KUXJI are constructed the same except for the following:

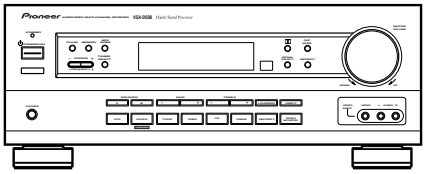
Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-D508/KUXJI	VSX-D498/KUXJI	
		PACKING			
P3 - 2	NSP	Dry Cell Battery (LR6, AA)	VEM1012	Not used	
P3 - 2	NSP	Dry Cell Battery (R6P, AA)	Not used	VEM-013	
P3 - 3		Operating Instructions (English)	ARB7157	ARB7192	
P3 - 4		Sub Instruction Manual(System Set up)	ARH7039	Not used	
P3 - 8		Remote Control Unit (CU-VSX138)	AXD7178	Not used	
P3 - 8		Remote Control Unit (CU-VSX157)	Not used	AXD7226	
P3 -13		Packing Case	AHD7643	AHD7758	
		Battery Cover	Not used	RZN1156	for Remote Control Unit (CU-VSX157)
		EXTERIOR SECTION			
P5 -31		Rear Panel	ANC7700	ANC7837	
P5 -47		Front Panel	AMB7525	AMB7634	

■ CONTRAST TABLE for VSX-D498/KCXJI

VSX-D498/KCXJI and VSX-D508/KCXJI are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.		Remarks
			VSX-D508/KCXJI	VSX-D498/KCXJI	
		PACKING			
P3 - 2	NSP	Dry Cell Battery (LR6, AA)	VEM1012	Not used	
P3 - 2	NSP	Dry Cell Battery (R6P, AA)	Not used	VEM-013	
P3 - 3		Operating Instructions (English/French)	ARE7179	ARE7223	
P3 - 4		Sub Instruction Manual(System Set up)	ARH7039	Not used	
P3 - 8		Remote Control Unit (CU-VSX138)	AXD7178	Not used	
P3 - 8		Remote Control Unit (CU-VSX157)	Not used	AXD7226	
P3 -13		Packing Case	AHD7643	AHD7758	
		Battery Cover	Not used	RZN1156	for Remote Control Unit (CU-VSX157)
		EXTERIOR SECTION			
P5 -31		Rear Panel	ANC7751	ANC7852	
P5 -47		Front Panel	AMB7525	AMB7634	

Service Manual



ORDER NO.
RRV2086

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D508

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	VSX-D508		
KUXJI	◯	AC120V	
KCXJI	◯	AC120V	

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PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING
This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 – Proposition 65

NOTICE
(FOR CANADIAN MODEL ONLY)
Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE
(POUR MODÈLE CANADIEN SEULEMENT)
Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

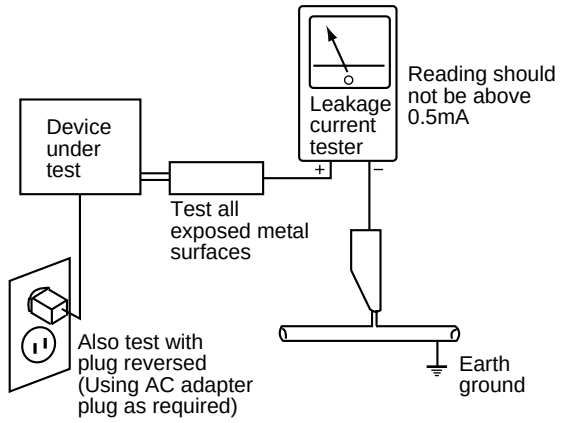
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.


Reading should not be above 0.5mA
Leakage current tester
+
–
Device under test
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.

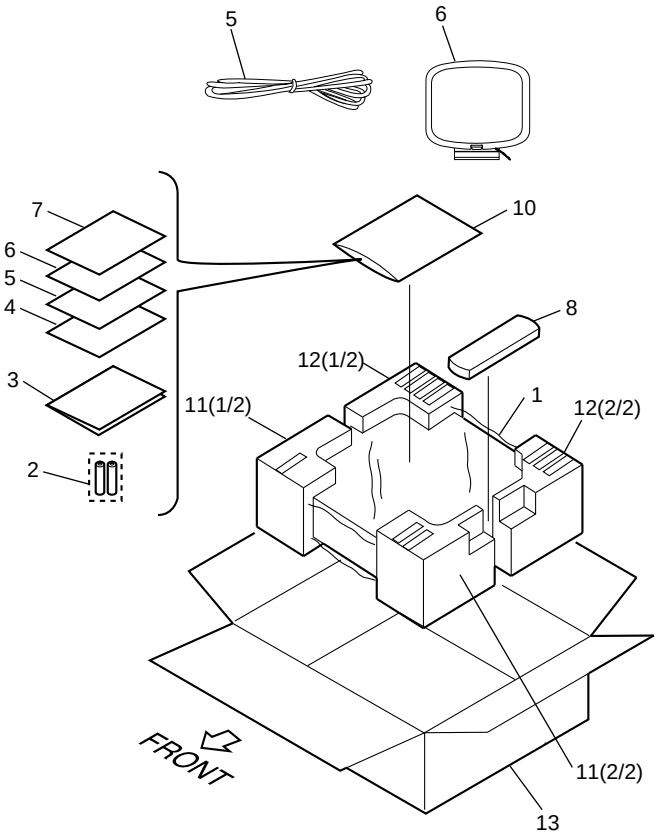
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
● *Screws adjacent to ▼ mark on the product are used for disassembly.*

2.1 PACKING



(1) PACKING PARTS LIST

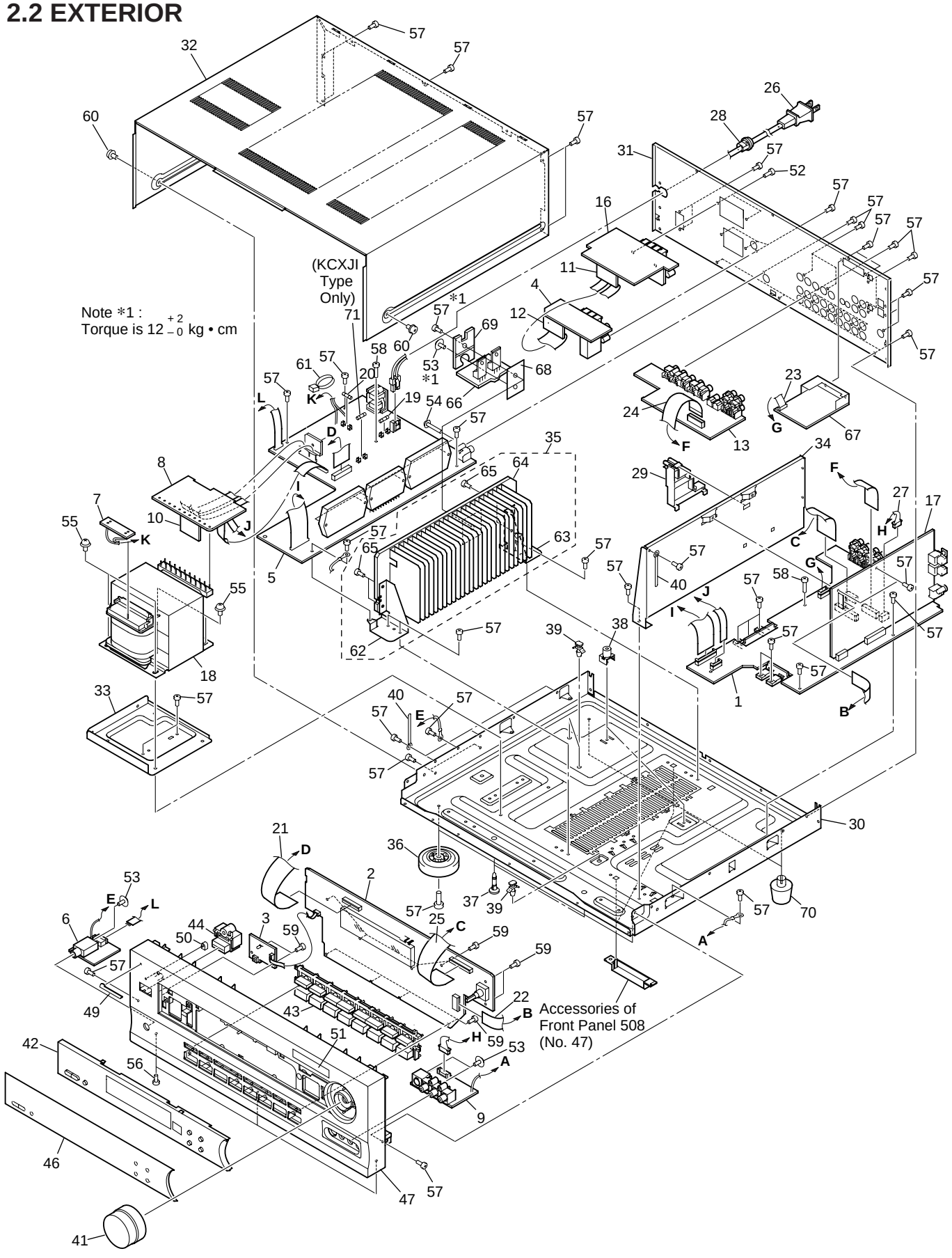
Mark	No.	Description	Part No.
	1	Packing Sheet	AHG7010
NSP	2	Alkaline Dry Cell Battery (LR6, AA)	VEM1012
	3	Operating Instructions	See Contrast table (2)
	4	Sub Instruction Manual (System Set up)	ARH7039
	5	FM Antenna	ADH7004
	6	AMLoop Antenna	ATB7009
NSP	7	Warranty Card	See Contrast table (2)
	8	Remote Control Unit (CU-VSX138)	AXD7178
	9	•••••	
	10	Polyethylene Bag (0.03×230×340)	Z21-038
	11	Front Pad 508	AHA7236
	12	Rear Pad 508	AHA7237
	13	Packing Case 508UC	AHD7643

(2) CONTRAST TABLE

VSX-D508/KUXJI and KCXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			KUXJI Type	KCXJI Type	
	3	Operating Instructions (English)	ARB7157	Not used	
	3	Operating Instructions (English/French)	Not used	ARE7179	
NSP	7	WarrantyCard	ARY7023	ARY7024	

2.2 EXTERIOR


Note *1 :
Torque is 12 +2 −0 kg • cm
(KCXJI Type Only)
Accessories of Front Panel 508 (No. 47)

(1) EXTERIOR PARTS LIST

Mark	No.	Description	Part No.
	1	INPUT Assy	AWX7207
	2	FRONT Assy	AWX7212
NSP	3	POWER SW Assy	AWX7222
NSP	4	REAR SP Assy	AWX7250
	5	AMP Assy	See Contrast table (2)
NSP	6	HEADPHONE Assy	AWX7229
	7	TRANS 1 Assy	AWX7231
	8	TRANS 2 Assy	AWX7232
NSP	9	FRONT VIDEO Assy	AWX7239
	10	BARRIER Assy	AWX7284
NSP	11	F.SP.CONNECT Assy	AWX7285
NSP	12	R.C.SP.CONNECT Assy	AWX7286
	13	VIDEO Assy	AWX7234
	14	• • • • •	
	15	• • • • •	
	16	FRONT SP. Assy	AWX7243
	17	DOLBY DIGITAL Assy	AWX7333
⚠	18	Power Transformer (T1)	See Contrast table (2)
⚠	19	Fuse (FU1 : 10A)	REK1087
⚠	20	Fuse (FU2 : 7A)	VEK1027
	21	FFC 21P (J2)	ADD7100
	22	FFC 15P (J4)	ADD7102
	23	FFC 13P (J5)	ADD7103
	24	FFC 17P (J8)	ADD7107
	25	FFC 26P (J3)	ADD7118
⚠	26	AC Power Cord	ADG7024
NSP	27	8P Shield Cable (J6)	ADX7242
	28	Cord Stopper	CM-22C
	29	Tuner Holder B	AAD7490
NSP	30	Under Base D5	ANA7079
	31	Rear Panel	See Contrast table (2)
	32	Bonnet Case	AZN7762
	33	Trans Frame	ANG7193
	34	DSP Shield	ANG7196
NSP	35	Heat Sink Assy D5	ANH7095
	36	Insulator	PNW2766
	37	Locking Card Spacer	AEC7160
	38	PCB Mold	AMR2533
NSP	39	Card Spacer	DEC1770
NSP	40	Binder	RNE1277
	41	Volume Knob 508	AAB7179
	42	Sub Panel 508	AAD7482
	43	Function Button	AAD7483
	44	Power Button	AAD7440
	45	• • • • •	
	46	Display Window R508	AAK7579
	47	Front Panel 508	AMB7525
	48	• • • • •	
	49	Name Plate	PAM1776
	50	LED Lens	PNW2019
	51	• • • • •	
	52	• • • • •	
	53	Screw	ABA7009
	54	Screw	ABA7043
	55	Screw	ABA7044
	56	• • • • •	
	57	Screw	BBZ30P080FZK
	58	Screw	BBZ30P200FMC
	59	Screw	BPZ30P080FMC
	60	Screw	FBT40P080FZK
NSP	61	Binder (BK-1)	ZCA-BK1
	62	Heat Sink Angle F	ANG7194
	63	Heat Sink Angle R	ANG7195
NSP	64	Heat Sink D5	ANH7090
	65	Screw	BBZ30P080FMC
NSP	66	FET Assy	AWX7228
	67	FM/AM TUNER Unit	AXX7046
	68	Sheet	AEE7026
	69	FET Angle	ANG7186
	70	Foot Assy	REC1263
⚠	71	Fuse (FU701 : 10A)	See Contrast table (2)

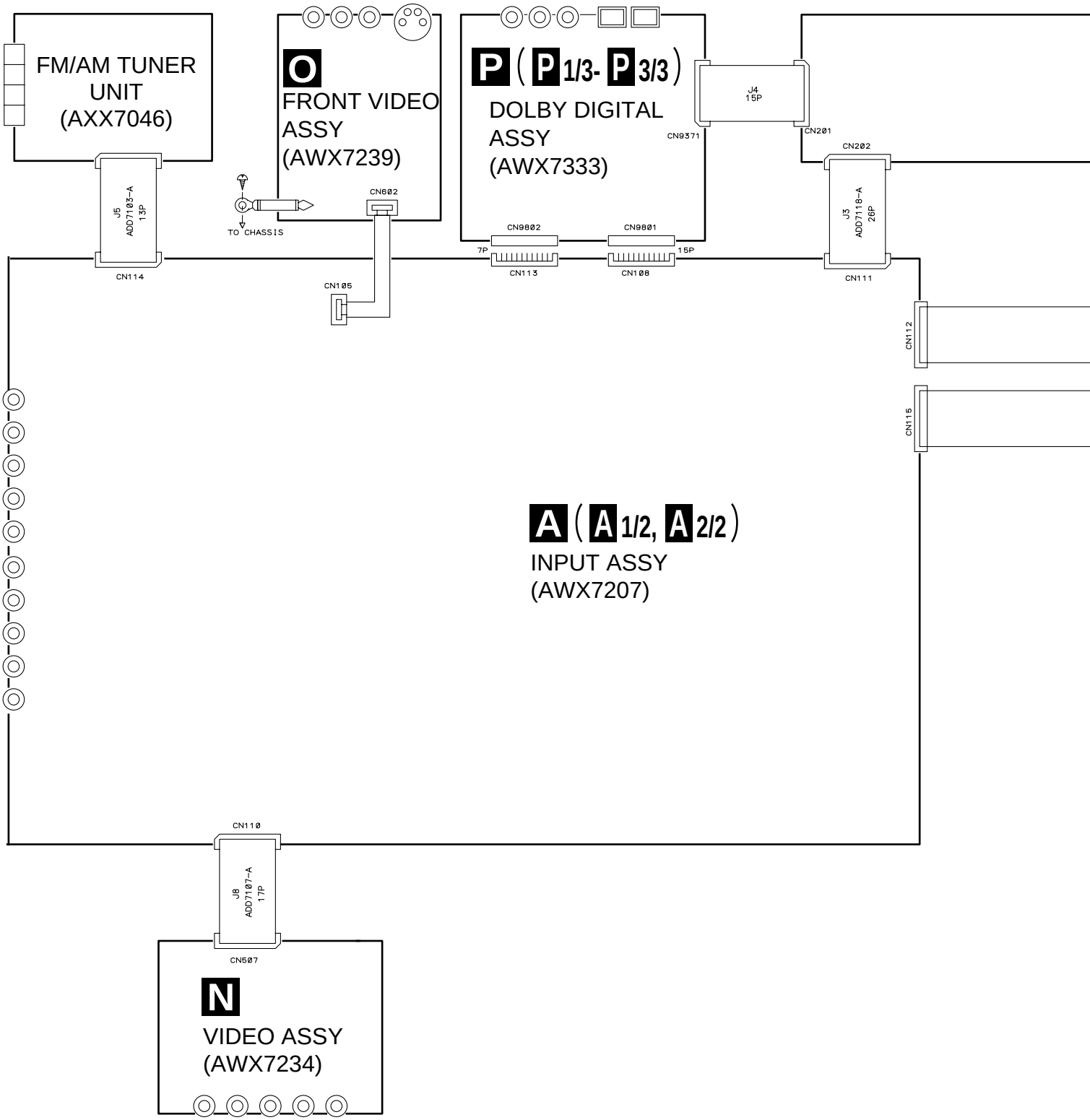
(2) CONTRAST TABLE

VSX-D508/KUXJI and KCXJI are constructed the same except for the following :

Mark	No.	Symbol and Description	Part No.		Remarks
			KUXJI Type	KCXJI Type	
	5	AMP Assy	AWX7223	AWX7331	
⚠	18	Power Transformer (T1)	ATS7234	ATS7235	
	31	Rear Panel 508U	ANC7700	Not used	
	31	Rear Panel 508C	Not used	ANC7751	
⚠	71	Fuse (FU701 : 10A)	Not used	REK1087	

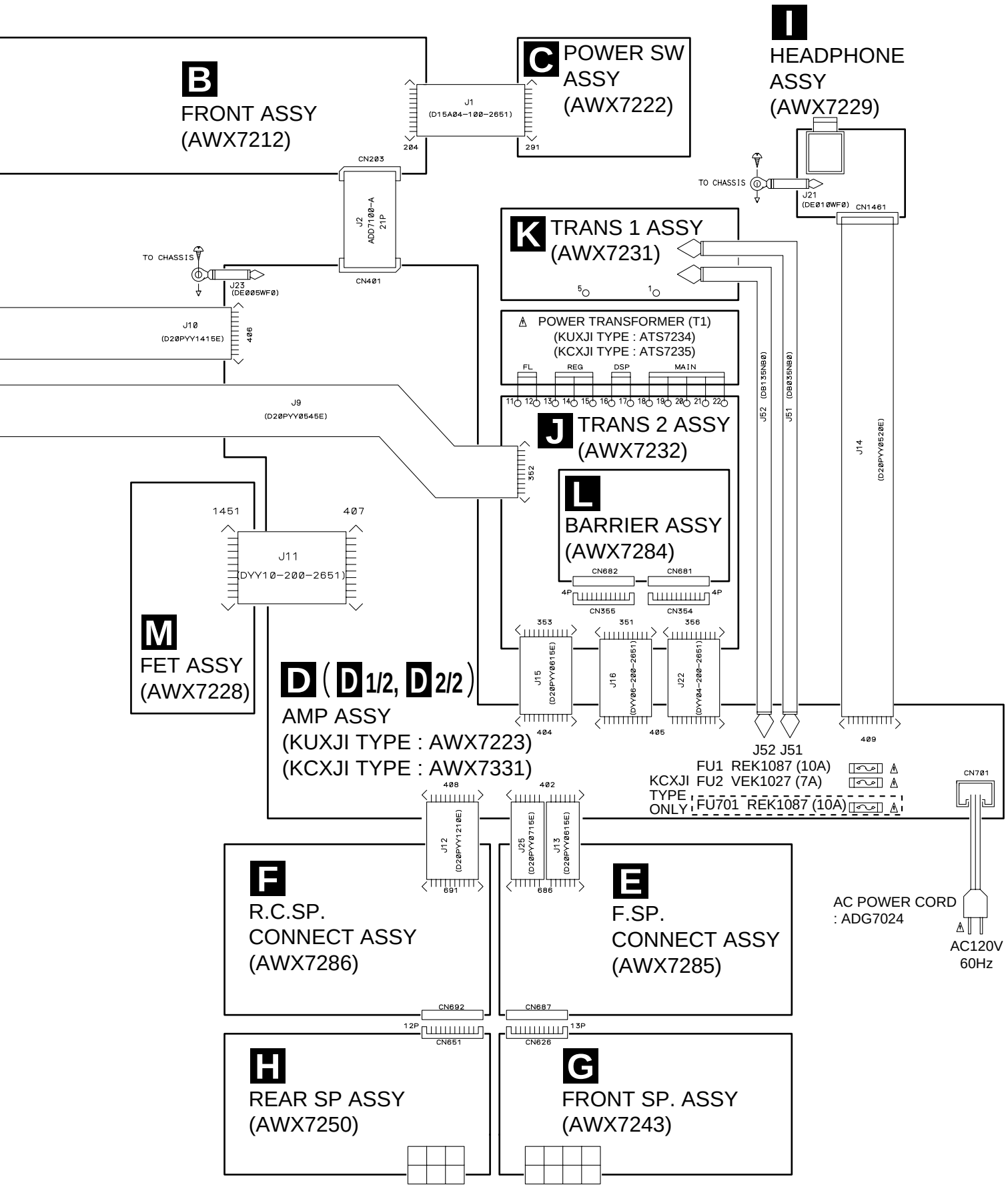
3. SCHEMATIC DIAGRAM

3.1 OVERALL WIRING CONNECTION DIAGRAM

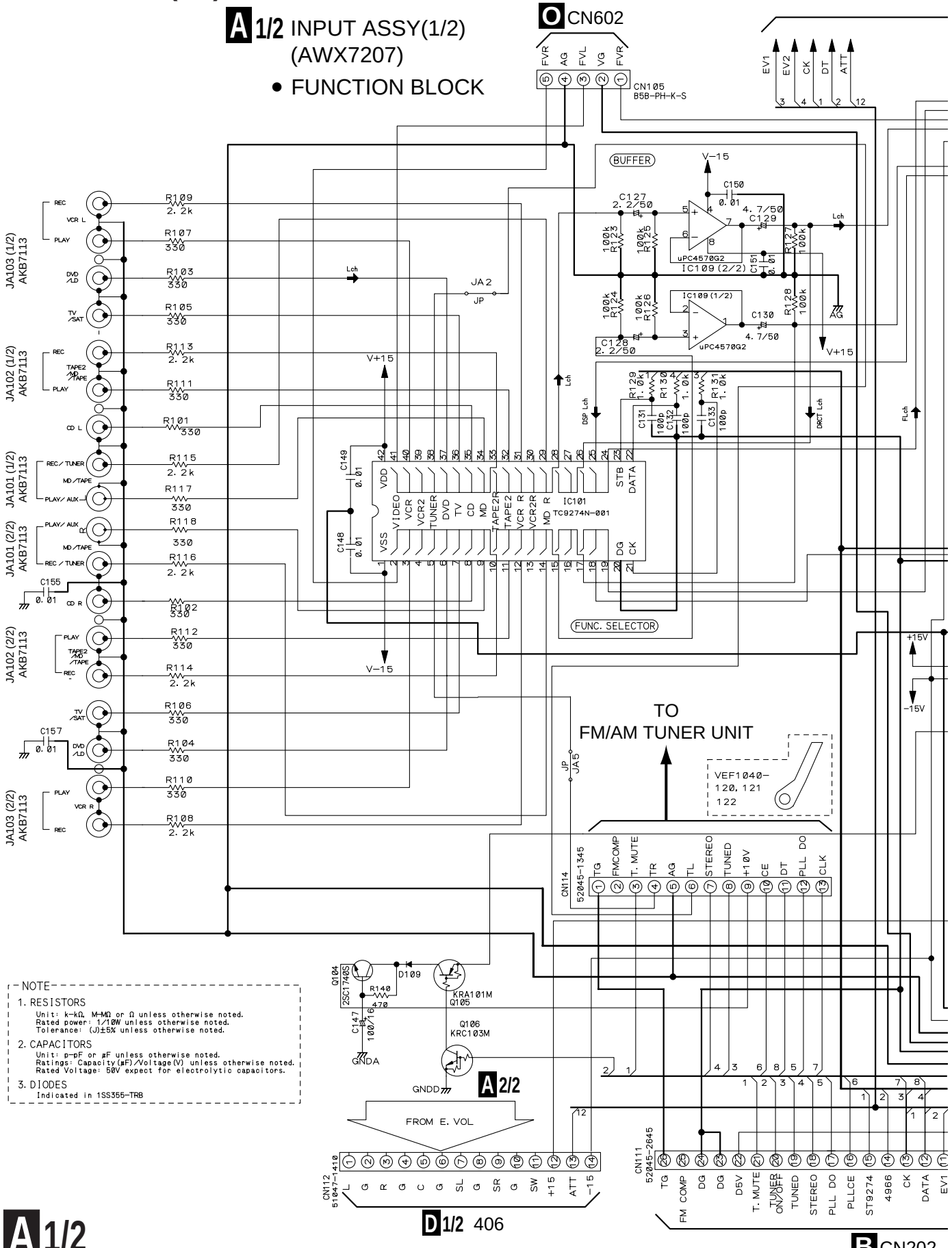


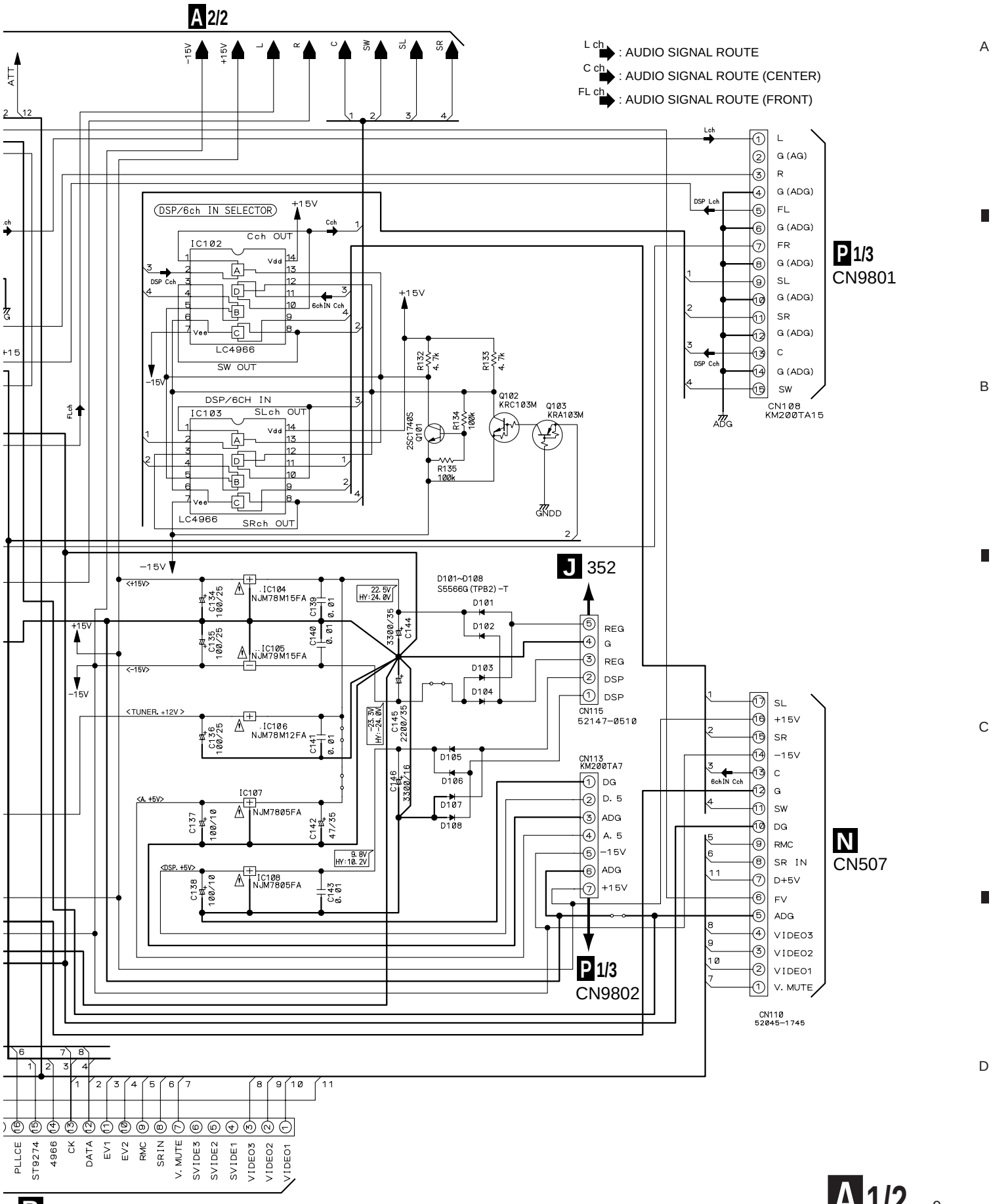
BORD IN CABLE	PCB–PCB CONNECTOR	F/F/C AND CONNECTOR	F/C AND CONNECTOR	F/C AND CABLEHOLDER	SHIELDCABLE AND CONNECTOR	AC CODE AND CONNECTOR

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



3.2 INPUT ASSY (1/2)

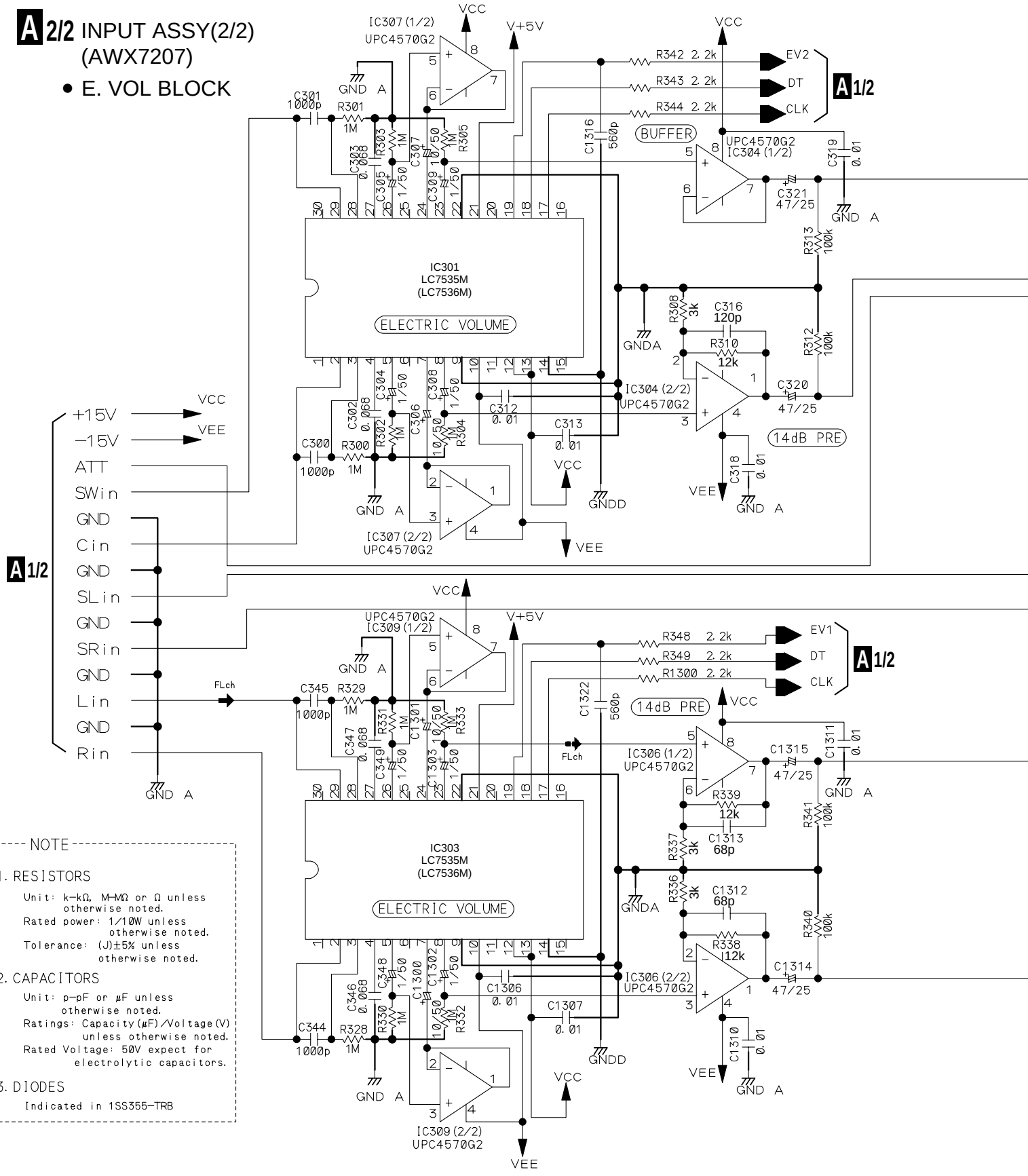



A 2/2
L ch : AUDIO SIGNAL ROUTE
C ch : AUDIO SIGNAL ROUTE (CENTER)
FL ch : AUDIO SIGNAL ROUTE (FRONT)
DSP/6ch IN SELECTOR
Cch OUT
IC102
LC4966
SW OUT
DSP/6CH IN
IC103
SLch OUT
SRch OUT
6chIN Cch
DSP Cch
DSP Lch
FLch
Q102 KRC103M
Q103 KRA103M
2SC1740S Q101
R132 4.7k
R133 4.7k
R134 100k
R135 100k
GNDD
ADG
P 1/3 CN9801
CN108 KM200TA15
J 352
D101~D108 S5566G (TPB2) -T
CN115 52147-0510
IC104 NJM78M15FA
IC105 NJM79M15FA
IC106 NJM78M12FA
IC107 NJM7805FA
IC108 NJM7805FA
CN113 KM200TA7
CN110 52045-1745
N CN507
P 1/3 CN9802
B CN202
PLLCE
ST9274
4966
CK
DATA
EV1
EV2
RMC
SRIN
V. MUTE
SVIDE3
SVIDE2
SVIDE1
VIDEO3
VIDEO2
VIDEO1

3.3 INPUT ASSY (2/2)

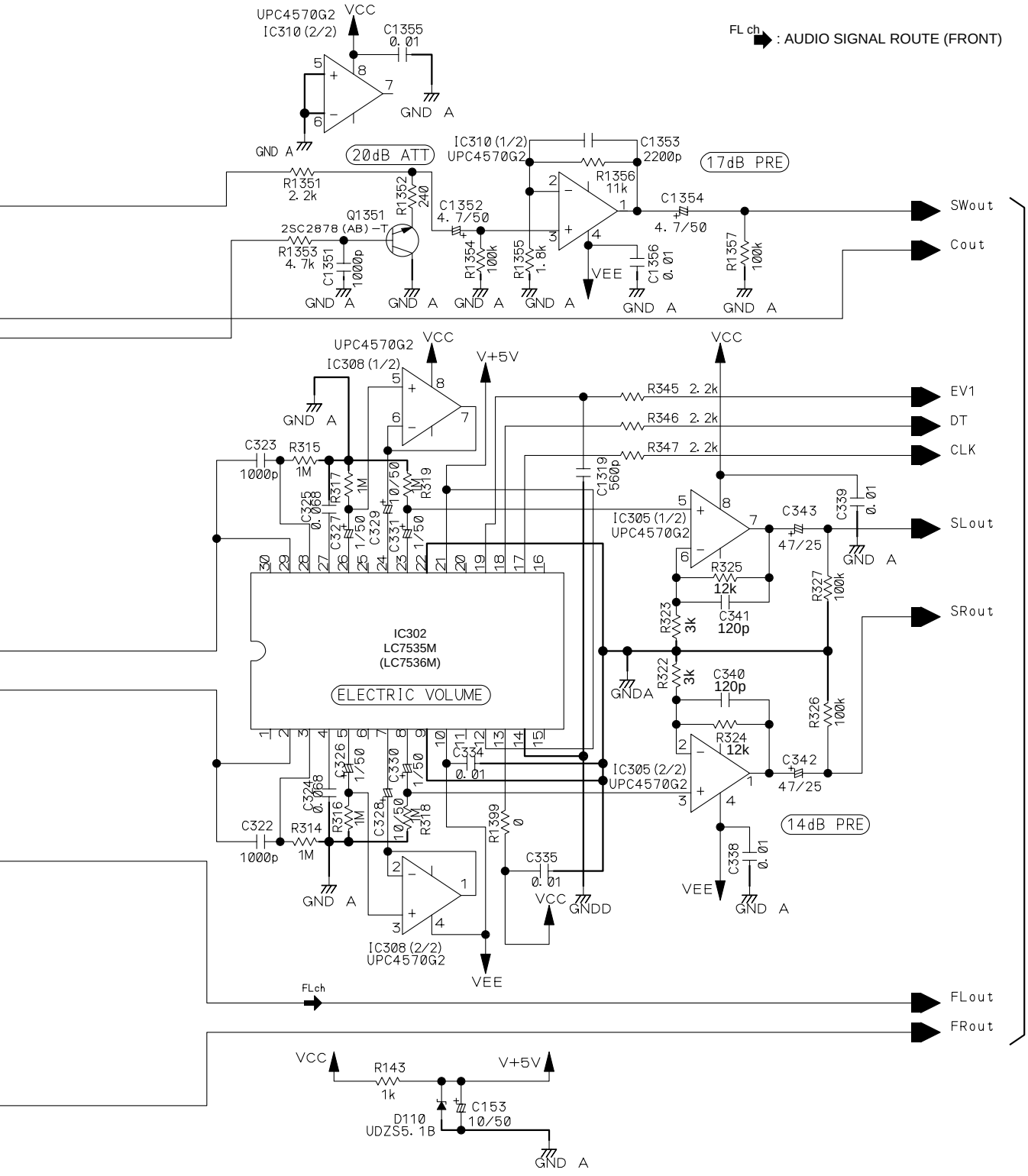
A 2/2 INPUT ASSY(2/2)
(AWX7207)

- E. VOL BLOCK



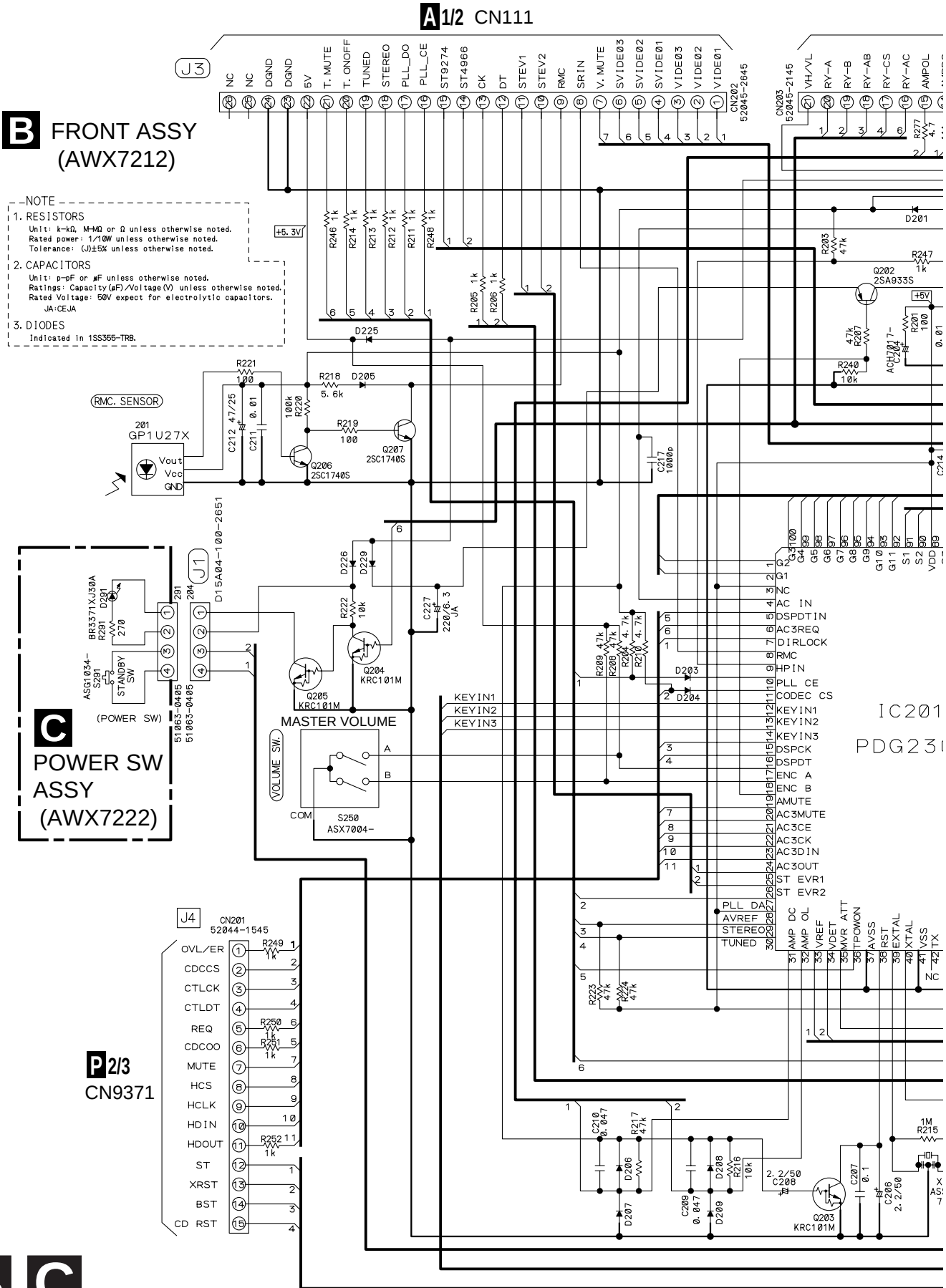
NOTE

1. RESISTORS
   - Unit: k-kΩ, M-MΩ or Ω unless otherwise noted.
   - Rated power: 1/10W unless otherwise noted.
   - Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
   - Unit: p-pF or μF unless otherwise noted.
   - Ratings: Capacity (μF) / Voltage (V) unless otherwise noted.
   - Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
   - Indicated in 1SS355-TRB

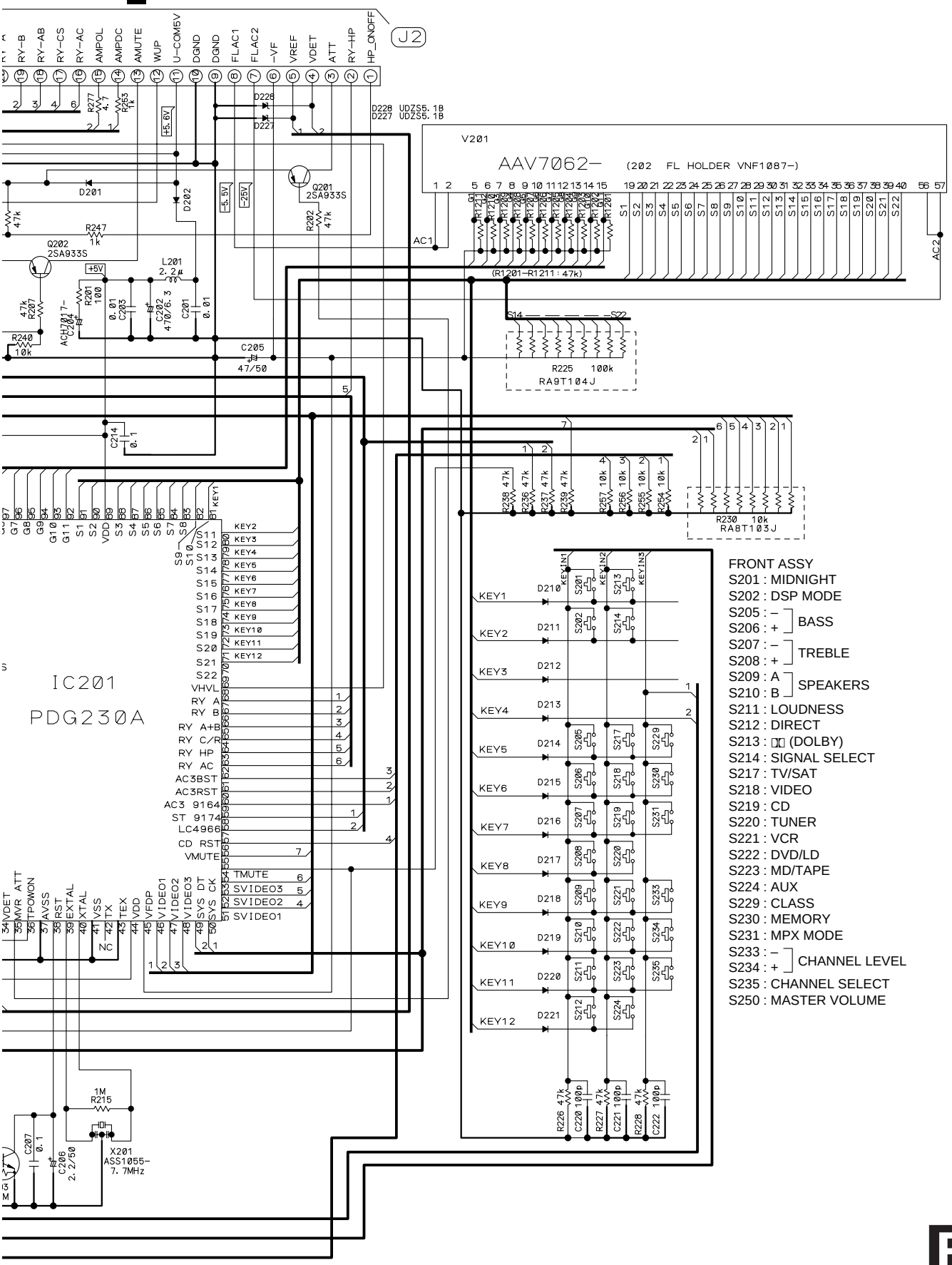

FL ch : AUDIO SIGNAL ROUTE (FRONT)
UPC4570G2
IC310(2/2)
VCC
C1355
0.01
GND A
20dB ATT
R1351
2.2k
R1352
240
Q1351
2SC2878(AB)-T
R1353
4.7k
C1351
1000p
C1352
4.7/50
IC310(1/2)
UPC4570G2
C1353
2200p
17dB PRE
R1356
11k
C1354
4.7/50
R1354
100k
R1355
1.8k
VEE
C1356
0.01
R1357
100k
SWout
Cout
UPC4570G2
IC308(1/2)
V+5V
R345 2.2k
R346 2.2k
R347 2.2k
EV1
DT
CLK
C323
1000p
R315
1M
R317
1M
C325
0.068
C327
1/50
C329
1/50
C331
1/50
R319
1M
C1319
560p
IC305(1/2)
UPC4570G2
C343
47/25
C339
0.01
SLout
R325
12k
C341
120p
R323
3k
R327
100k
SRout
IC302
LC7535M
(LC7536M)
ELECTRIC VOLUME
R322
3k
C340
120p
R324
12k
R326
100k
C342
47/25
IC305(2/2)
UPC4570G2
C322
1000p
R314
1M
C324
0.068
R316
1M
C326
1/50
C328
10/50
R318
1M
C330
1/50
C334
0.01
R1399
0
C335
0.01
14dB PRE
C338
0.01
GNDD
IC308(2/2)
UPC4570G2
FLch
FLout
FRout
R143
1k
D110
UDZS5.1B
C153
10/50

A1/2

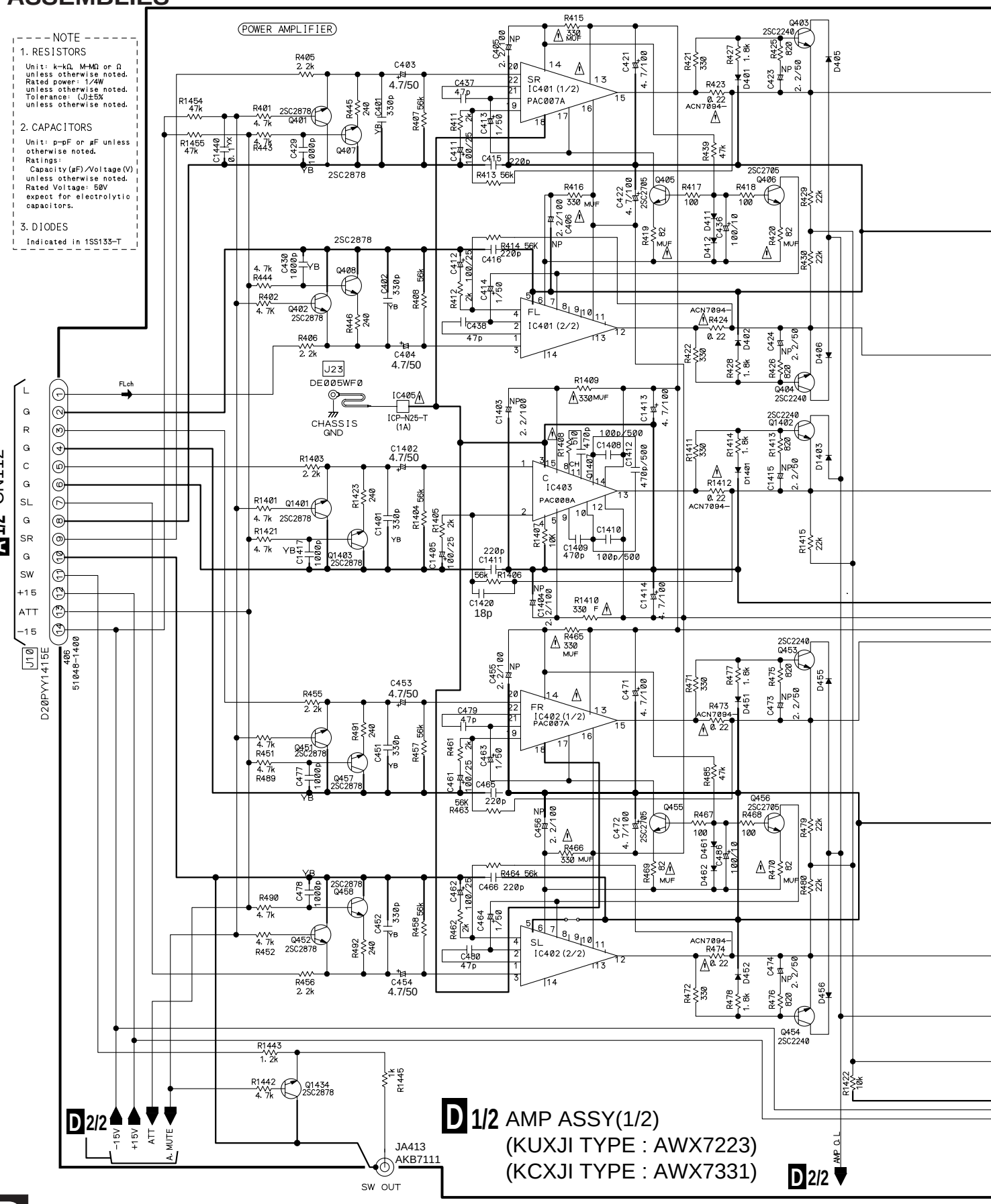
3.4 FRONT and POWER SW ASSEMBLIES

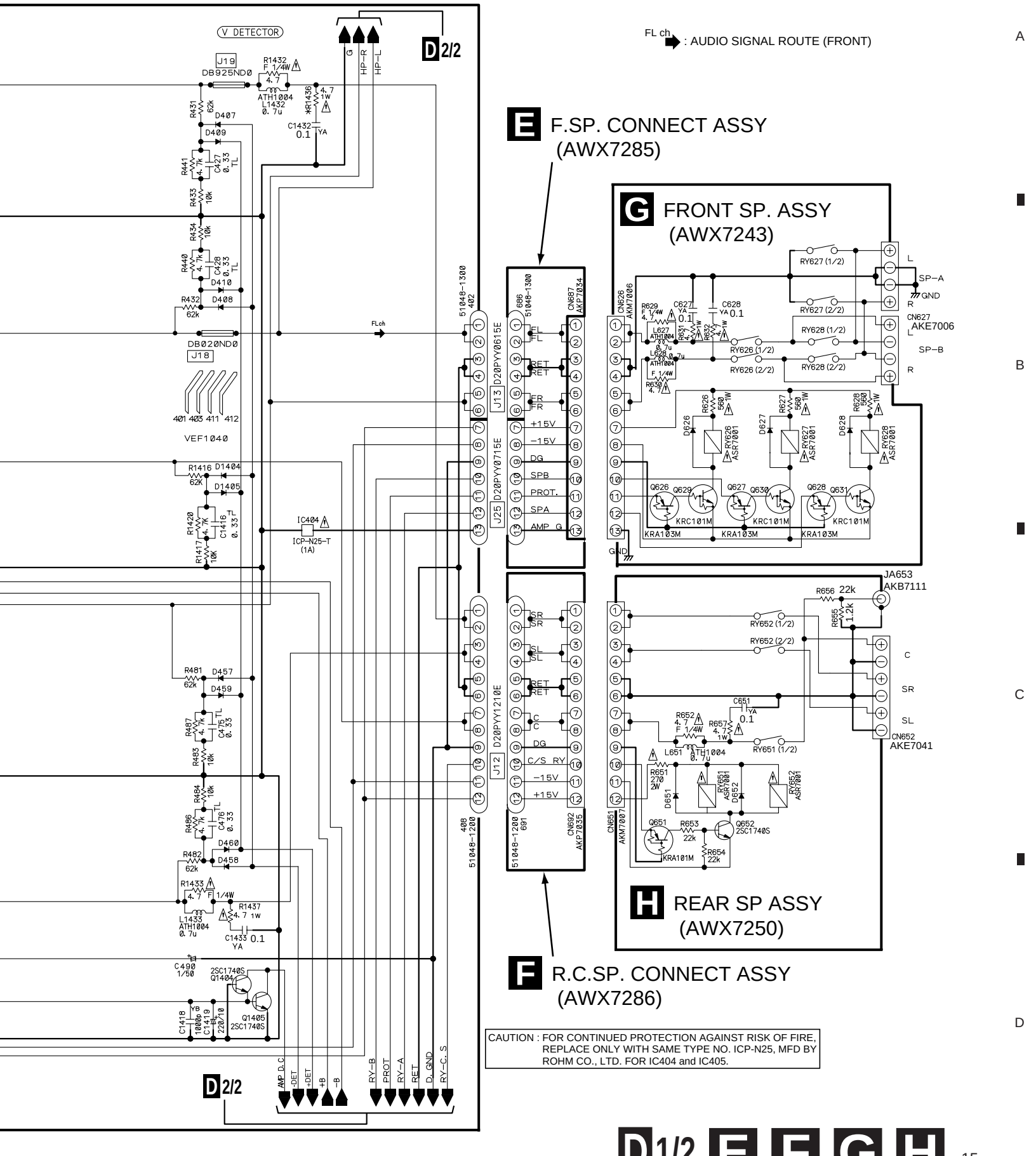


D 2/2 CN401

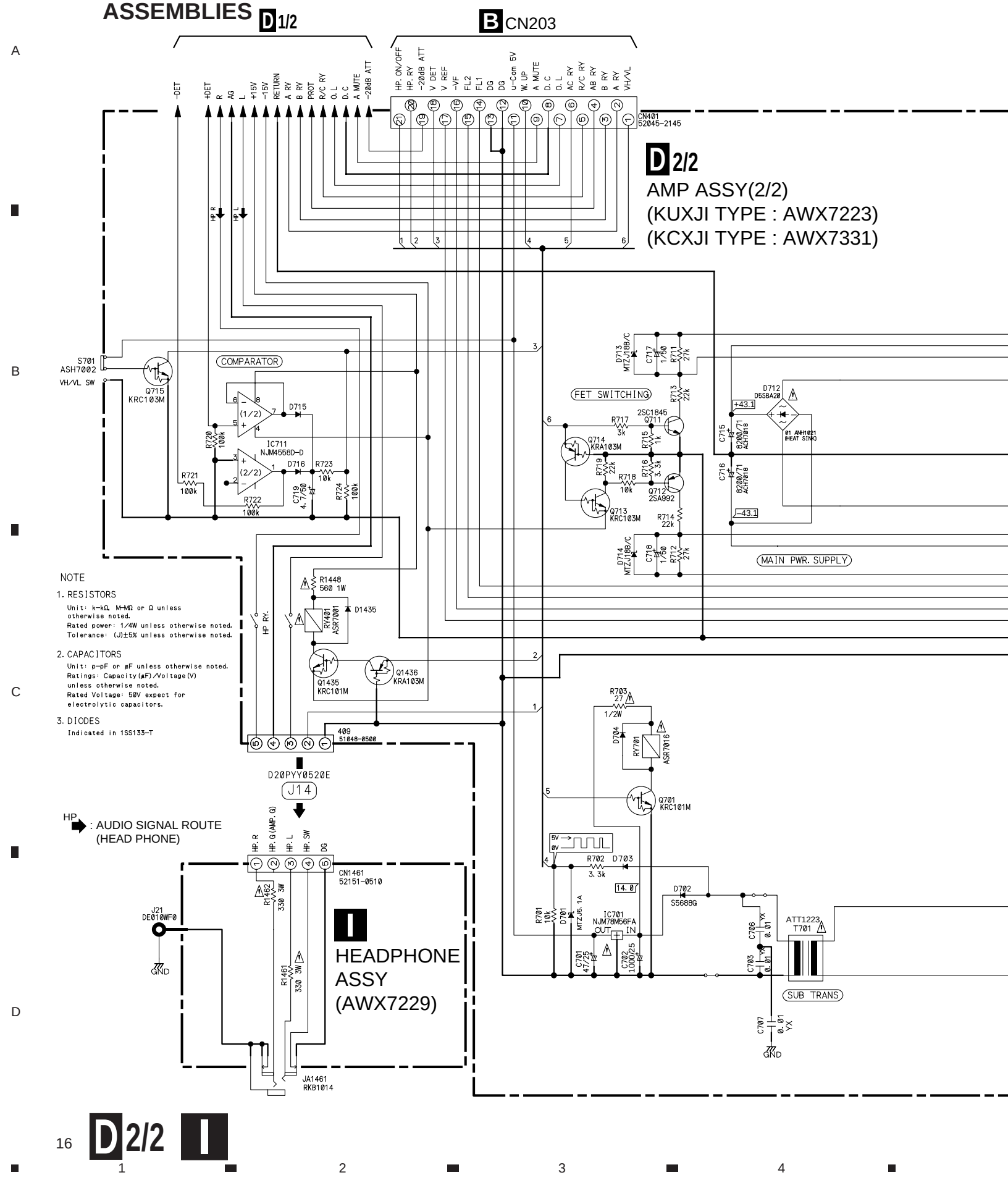

J2
V201
AAV7062-
(202 FL HOLDER VNF1087-)
IC201
PDG230A
X201
ASS1055-
7.7MHz
(R1201-R1211 : 47k)
R225 100k
RA9T104J
R230 10k
RA8T103J
FRONT ASSY
S201 : MIDNIGHT
S202 : DSP MODE
S205 : – / S206 : + BASS
S207 : – / S208 : + TREBLE
S209 : A / S210 : B SPEAKERS
S211 : LOUDNESS
S212 : DIRECT
S213 : (DOLBY)
S214 : SIGNAL SELECT
S217 : TV/SAT
S218 : VIDEO
S219 : CD
S220 : TUNER
S221 : VCR
S222 : DVD/LD
S223 : MD/TAPE
S224 : AUX
S229 : CLASS
S230 : MEMORY
S231 : MPX MODE
S233 : – / S234 : + CHANNEL LEVEL
S235 : CHANNEL SELECT
S250 : MASTER VOLUME

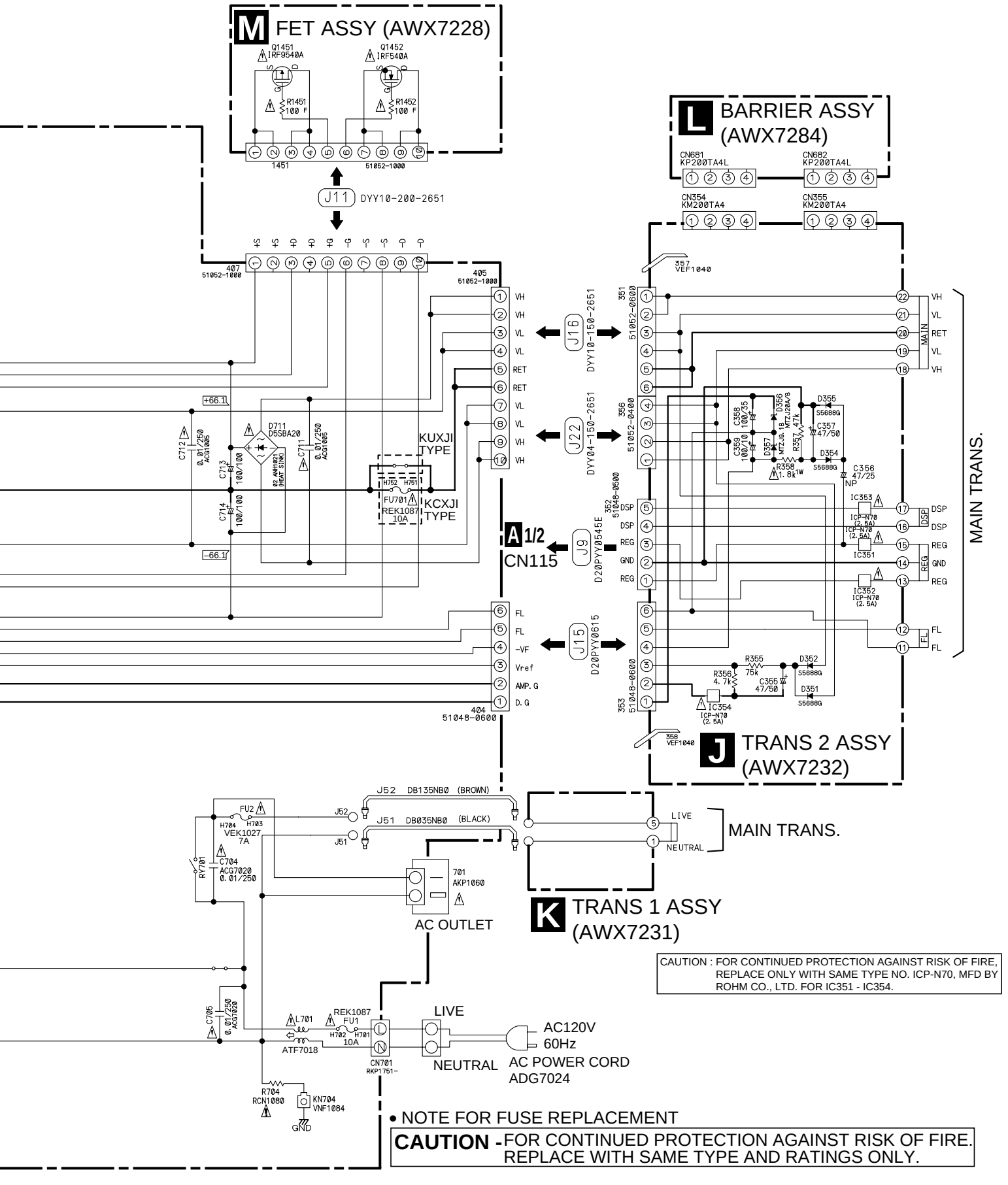
3.5 AMP (1/2), F.SP.CONNECT, R.C.SP.CONNECT, FRONT SP. and REAR SP ASSEMBLIES


NOTE
1. RESISTORS
Unit: k-kΩ, M-MΩ or Ω unless otherwise noted. Rated power: 1/4W unless otherwise noted. Tolerance: (J)±5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or μF unless otherwise noted. Ratings: Capacity(μF)/Voltage(V) unless otherwise noted. Rated Voltage: 50V expect for electrolytic capacitors.
3. DIODES
Indicated in 1SS133-T
POWER AMPLIFIER
SR IC401 (1/2) PAC007A
FL IC401 (2/2)
C IC403 PAC008A
FR IC402 (1/2) PAC007A
SL IC402 (2/2)
A 1/2 CN112
L G R G C G SL G SR G SW +15 ATT −15
FLch
CHASSIS GND
J23 DE005WF0
IC405 ICP-N25-T (1A)
J10 D20PYY1415E 406 51048-1400
D 2/2 −15V +15V ATT A. MUTE
JA413 AKB7111
SW OUT
D 1/2 AMP ASSY(1/2)
(KUXJI TYPE : AWX7223)
(KCXJI TYPE : AWX7331)
AMP O. L
D 2/2


FL ch : AUDIO SIGNAL ROUTE (FRONT)
E F.SP. CONNECT ASSY (AWX7285)
G FRONT SP. ASSY (AWX7243)
H REAR SP ASSY (AWX7250)
F R.C.SP. CONNECT ASSY (AWX7286)
D 2/2
V DETECTOR
DB925ND0
DB020ND0
VEF1040
ICP-N25-T (1A)
CN687 AKP7034
CN692 AKP7035
CN626 AKM7006
CN627 AKE7006
CN651 AKM7007
CN652 AKE7041
JA653 AKB7111
SP-A
SP-B
GND
CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. ICP-N25, MFD BY ROHM CO., LTD. FOR IC404 and IC405.

3.6 AMP (2/2), HEADPHONE, TRANS 2, TRANS 1, BARRIER and FET ASSEMBLIES D 1/2



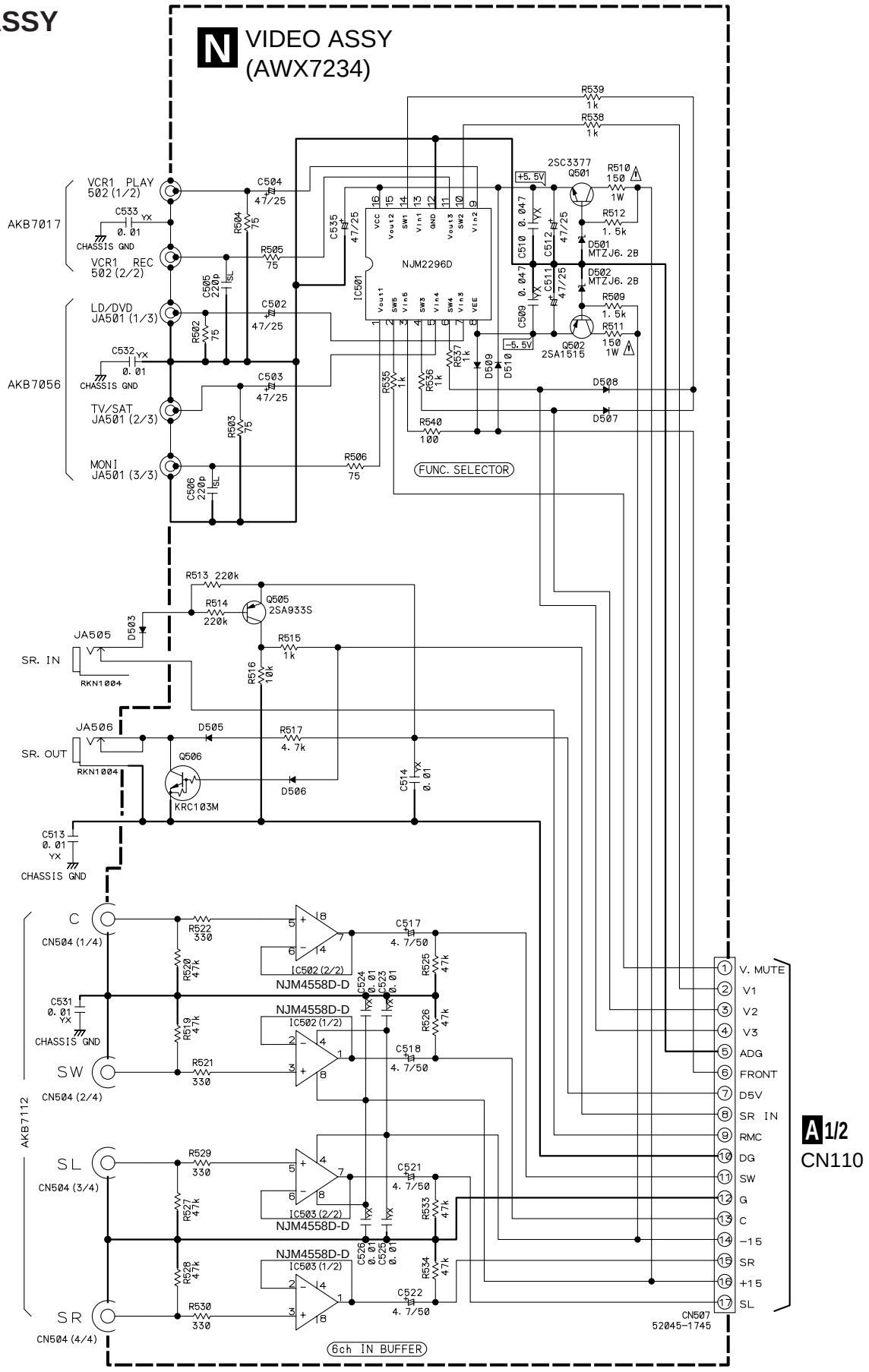


CAUTION : FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE NO. ICP-N70, MFD BY ROHM CO., LTD. FOR IC351 - IC354.

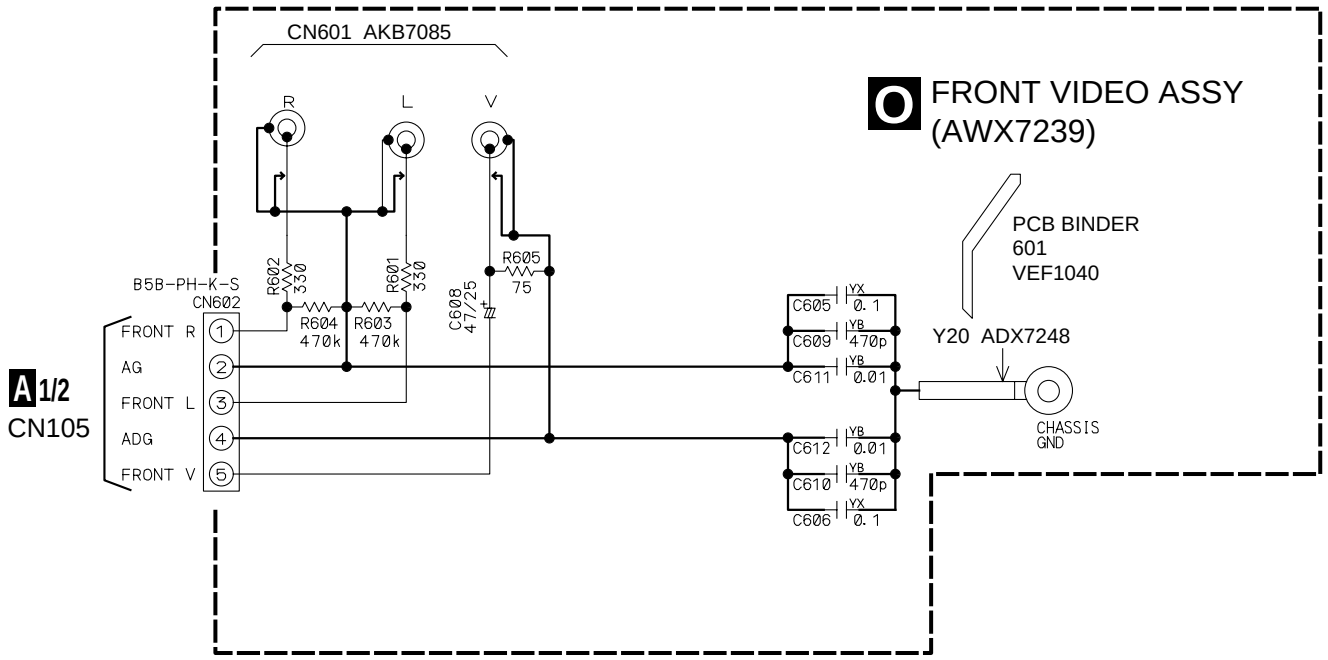
• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

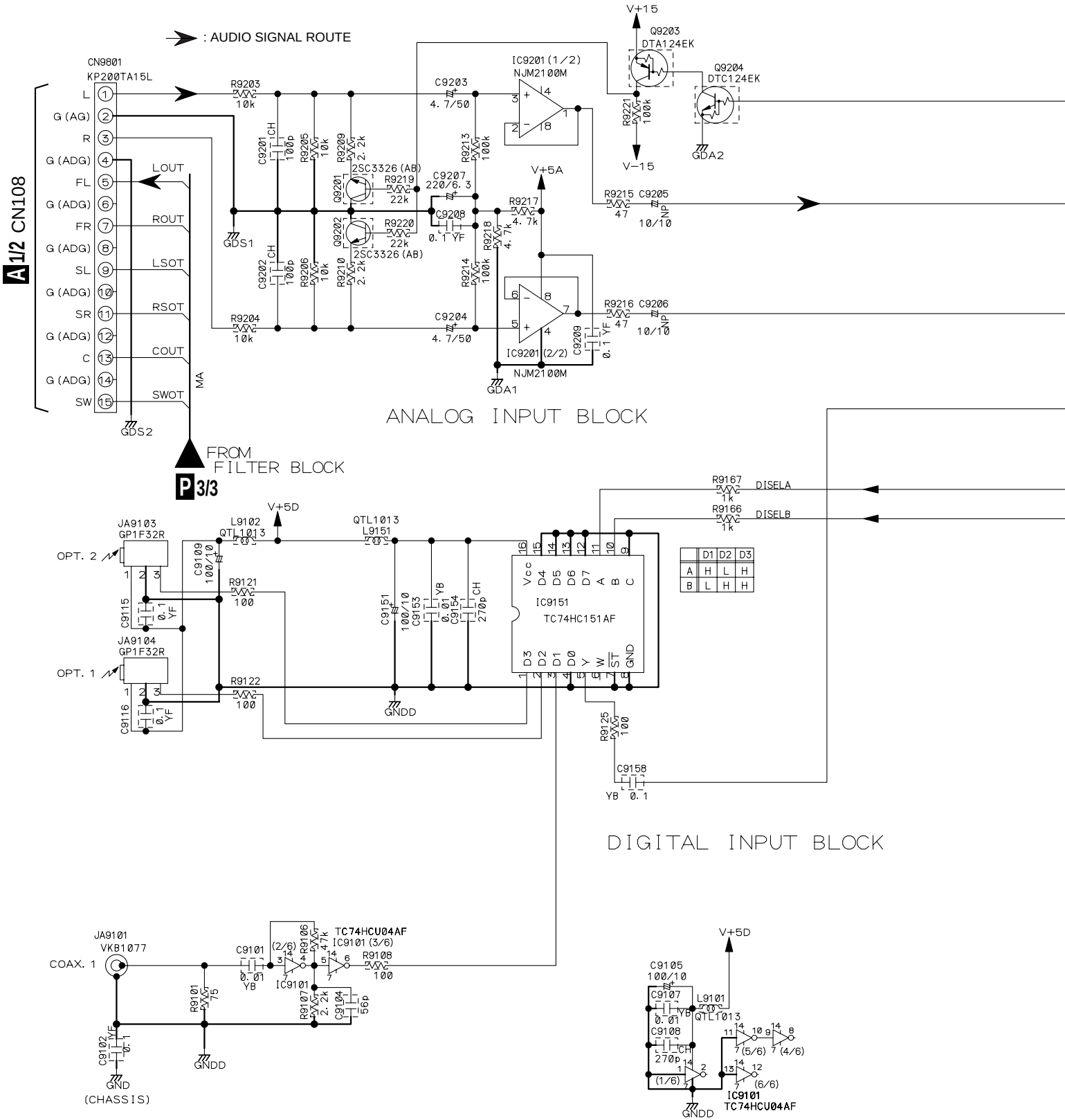
3.7 VIDEO ASSY



3.8 FRONT VIDEO ASSY

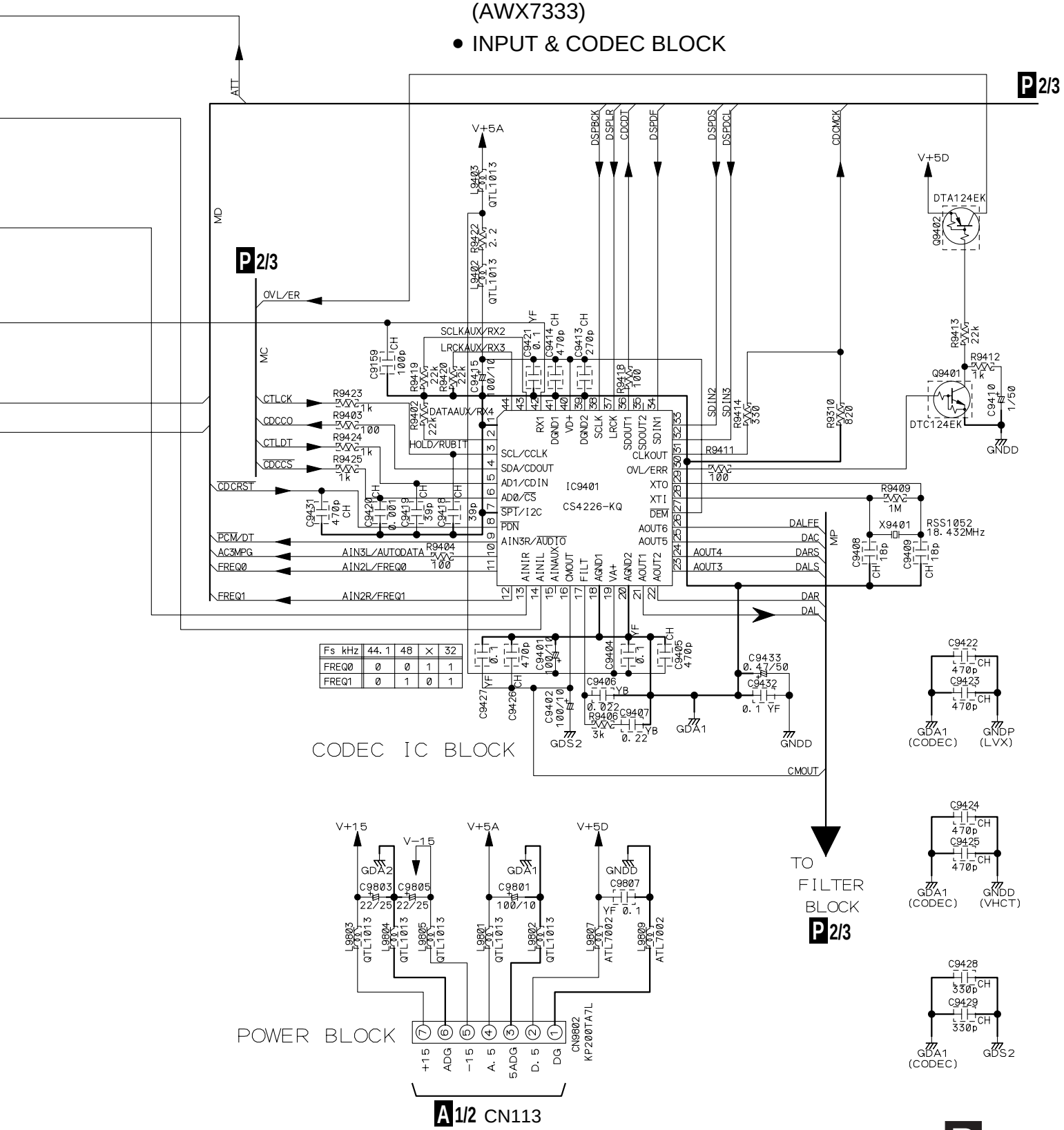


3.9 DOLBY DIGITAL ASSY (1/3)



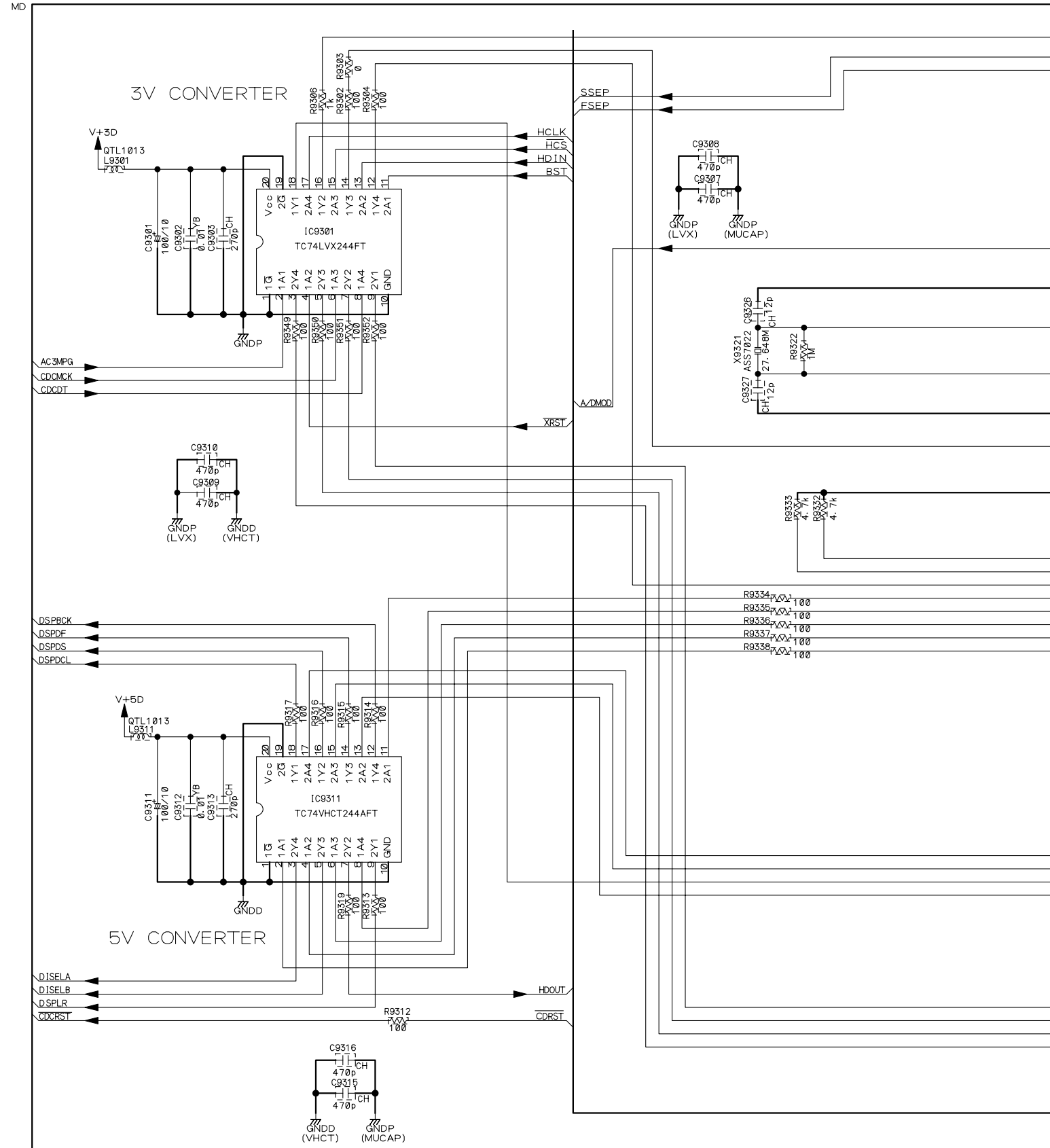
P 1/3 DOLBY DIGITAL ASSY(1/3) (AWX7333)

- INPUT & CODEC BLOCK



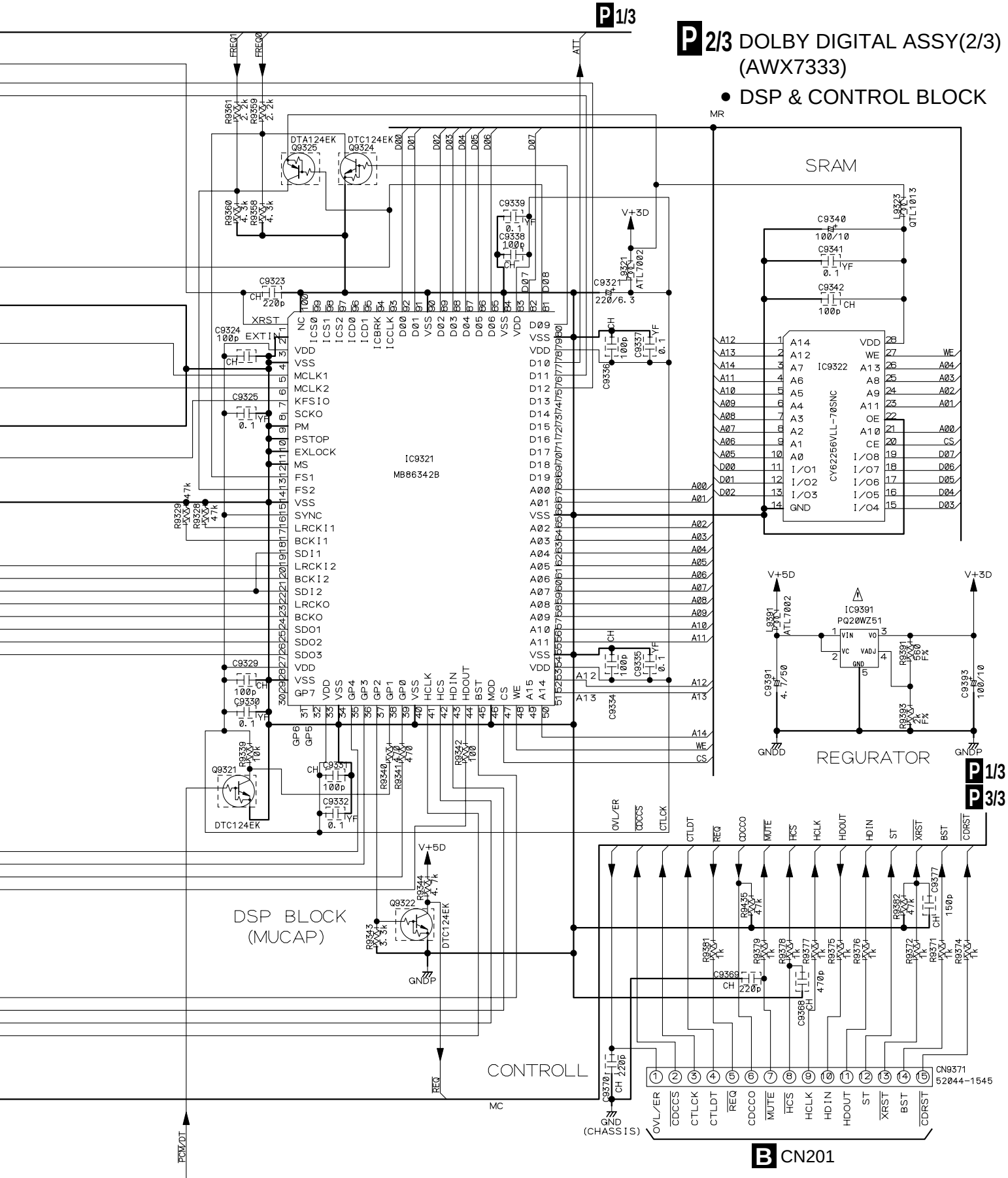
Fs kHz	44.1	48	×	32
FREQ0	0	0	1	1
FREQ1	0	1	0	1

3.10 DOLBY DIGITAL ASSY (2/3)

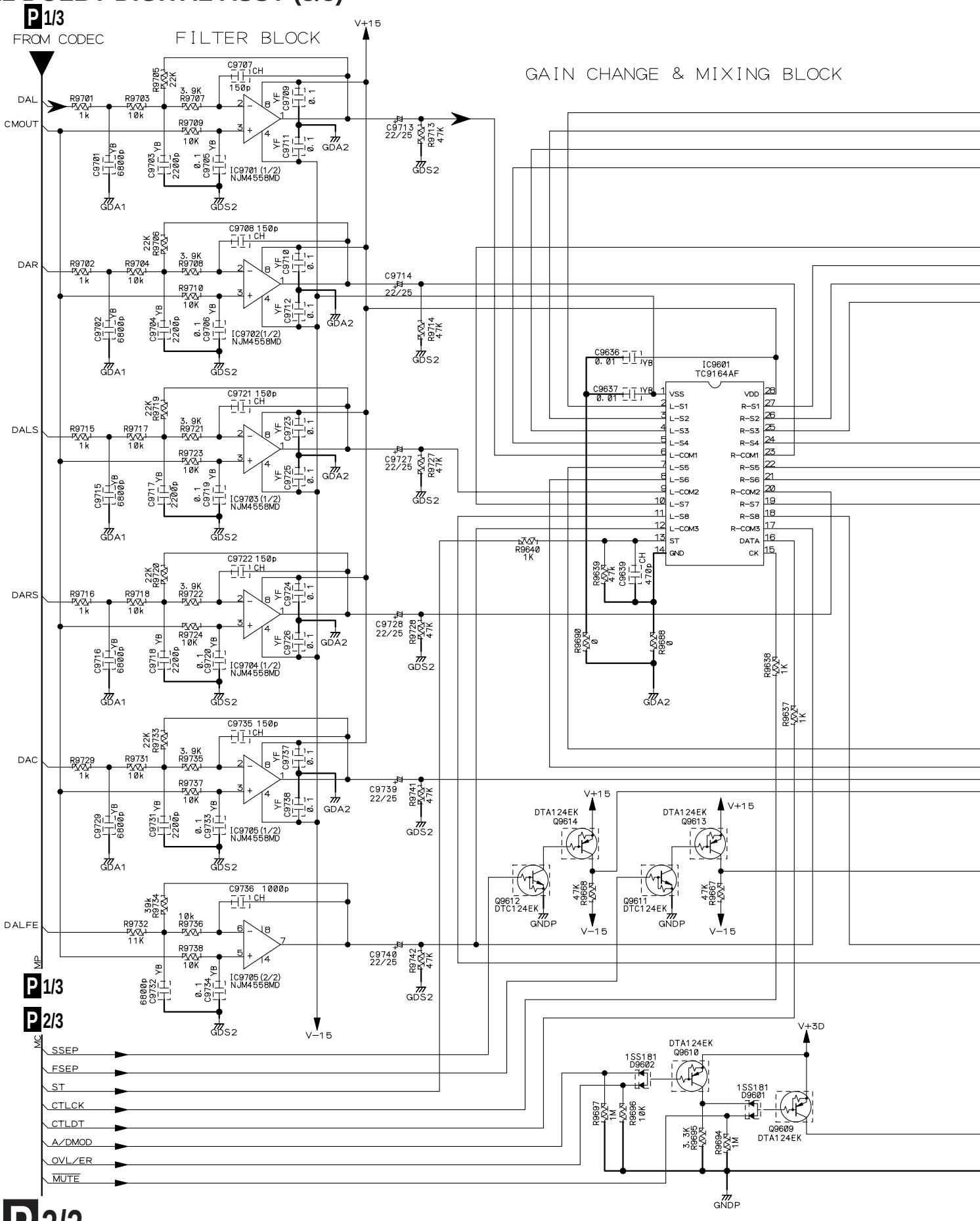


P 2/3 DOLBY DIGITAL ASSY(2/3) (AWX7333)

- DSP & CONTROL BLOCK

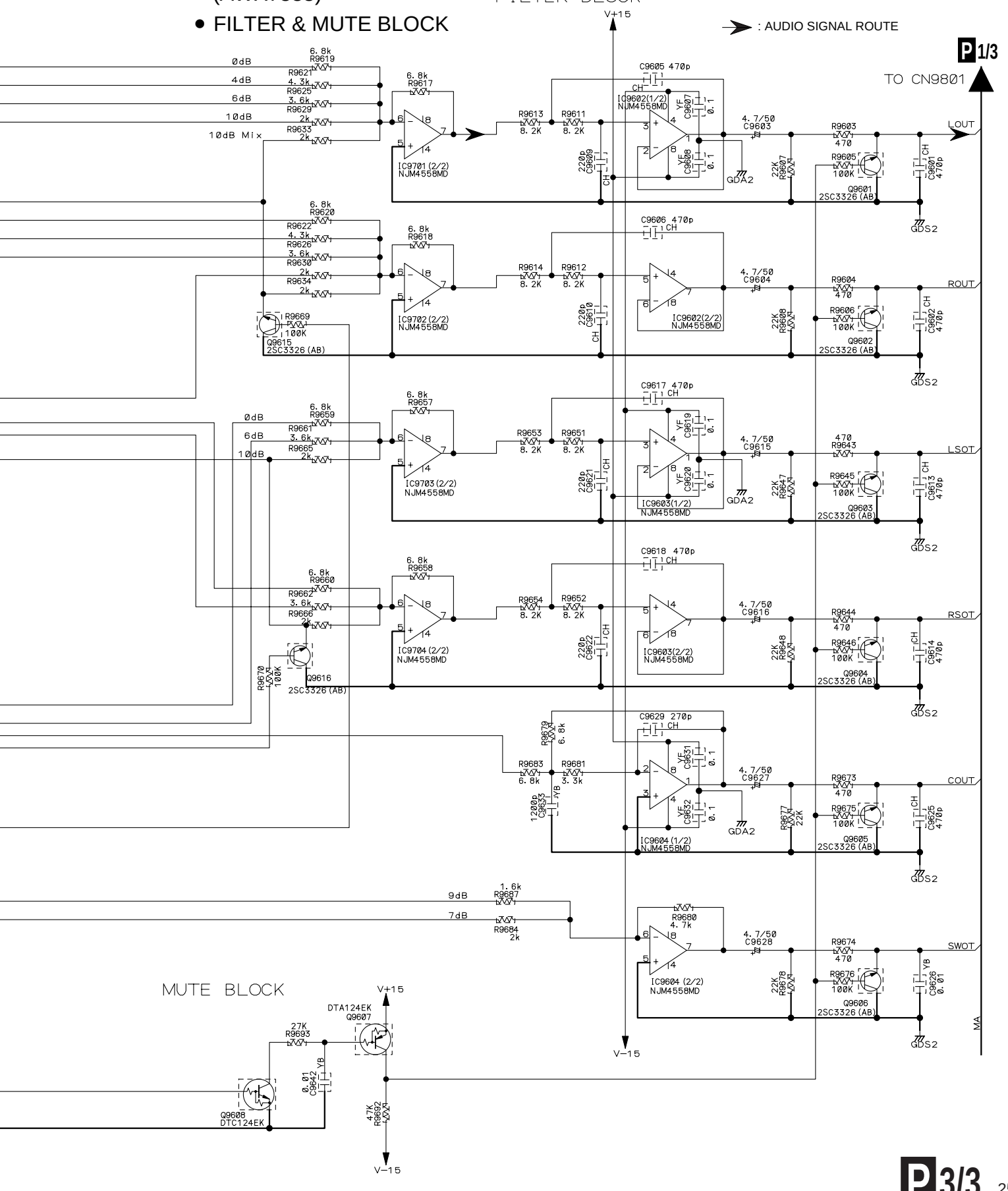


3.11 DOLBY DIGITAL ASSY (3/3)



P 3/3 DOLBY DIGITAL ASSY(3/3)
(AWX7333)

- FILTER & MUTE BLOCK



4. PCB CONNECTION DIAGRAM

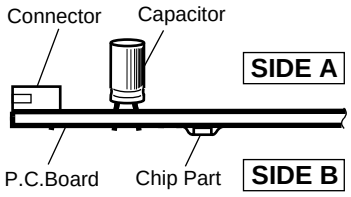
4.1 INPUT and FRONT VIDEO ASSEMBLIES

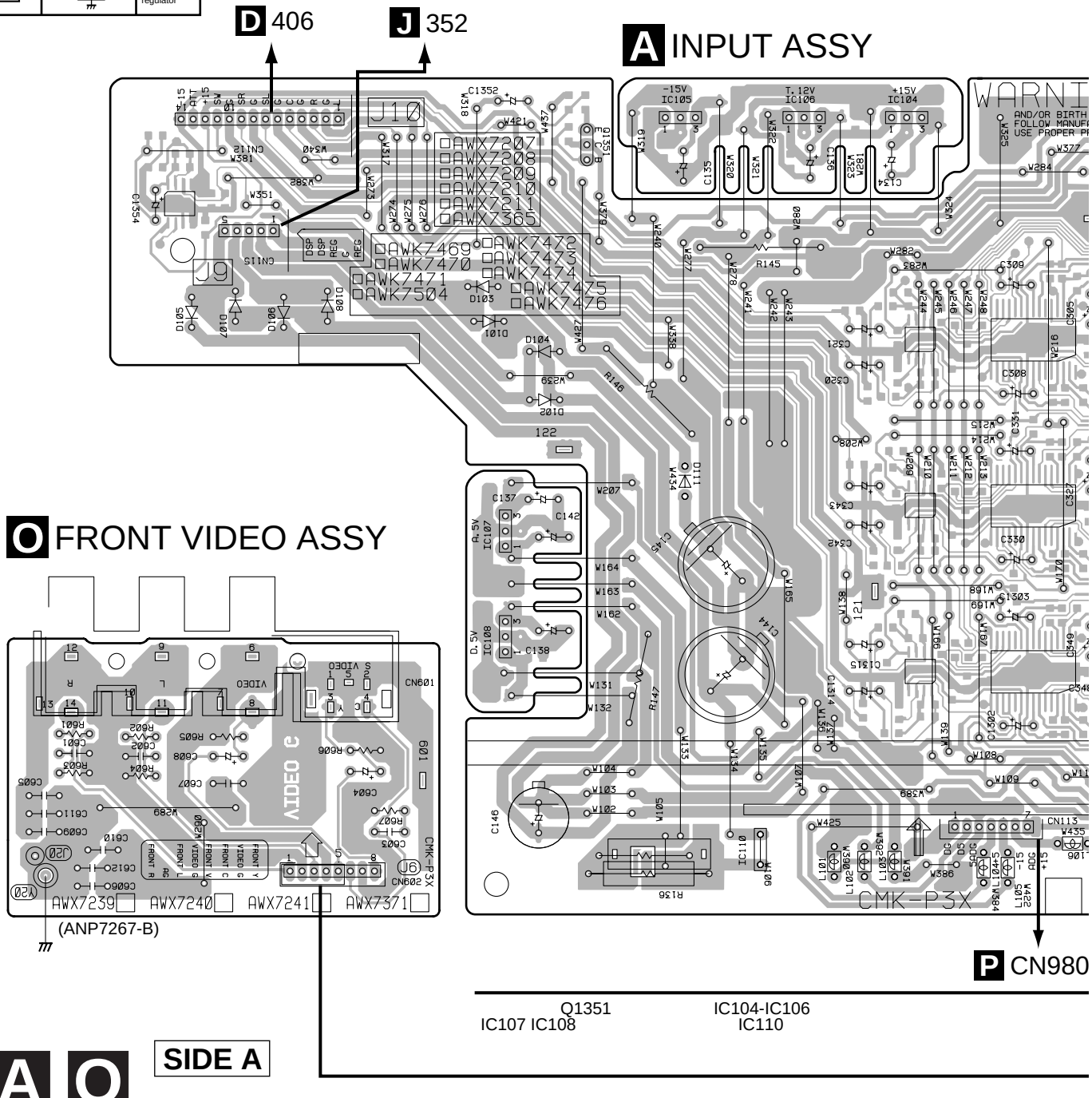
NOTE FOR PCB DIAGRAMS :

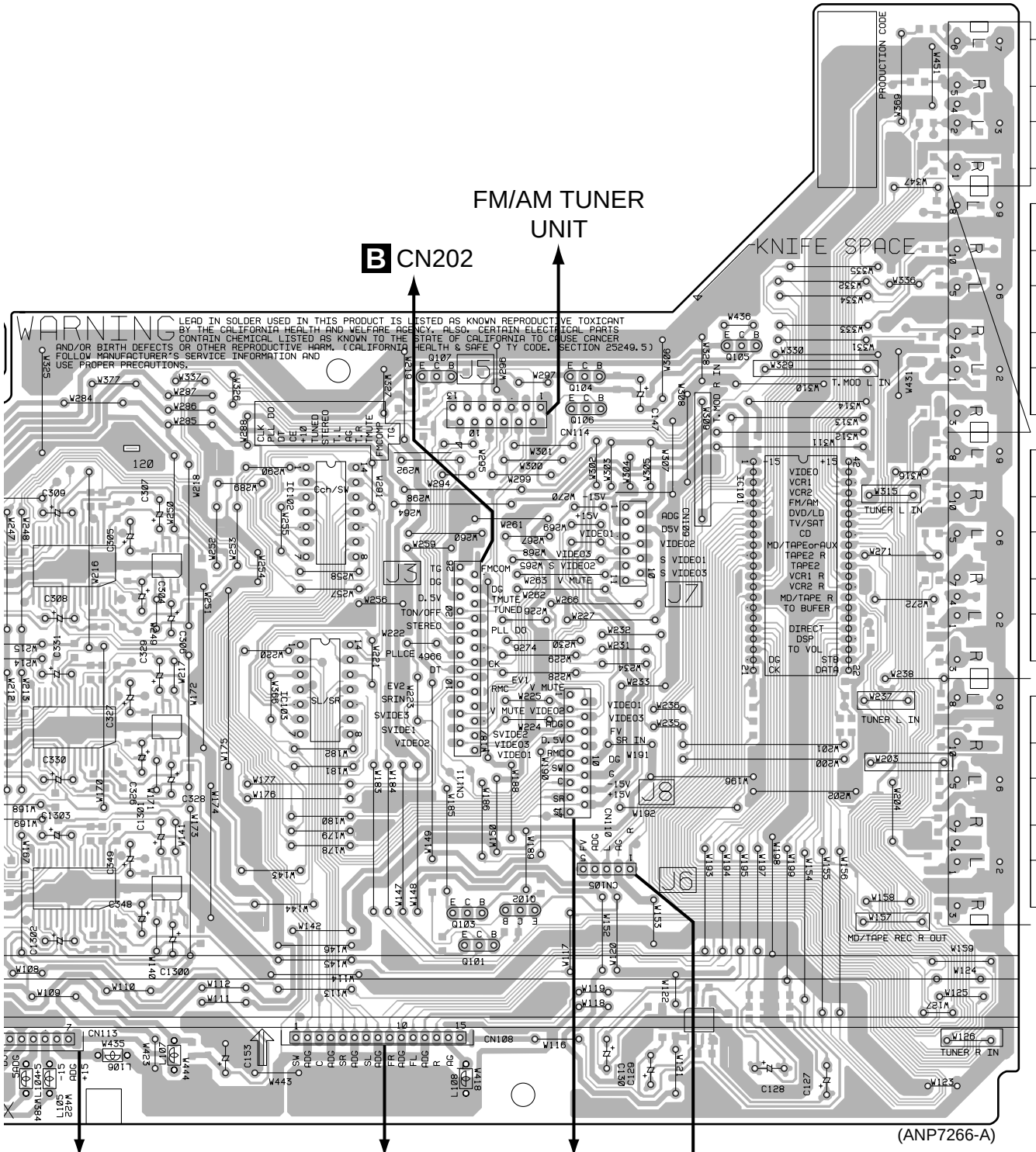
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

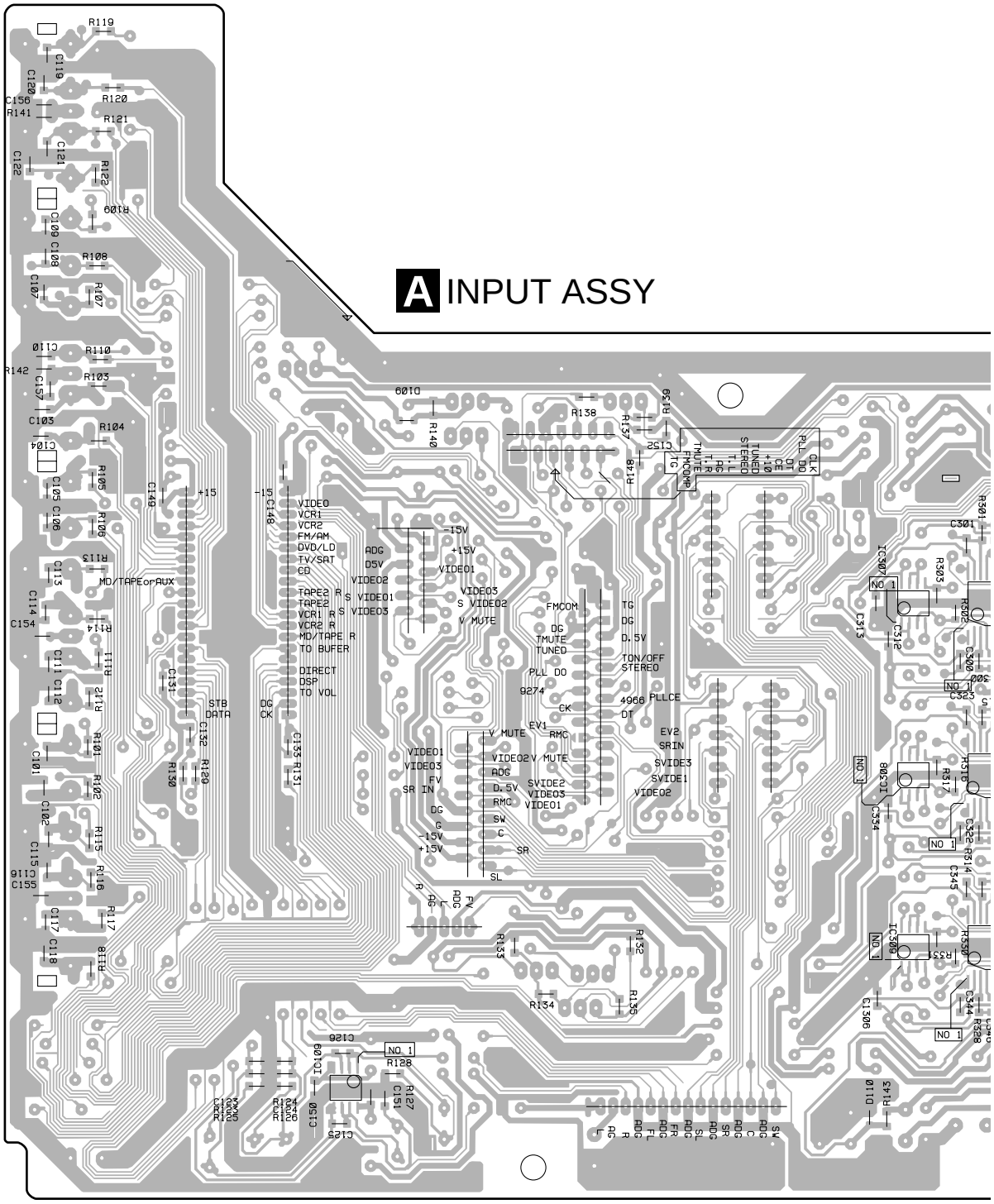
3. The parts mounted on this PCB include all necessary parts for several destinations.
   For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.

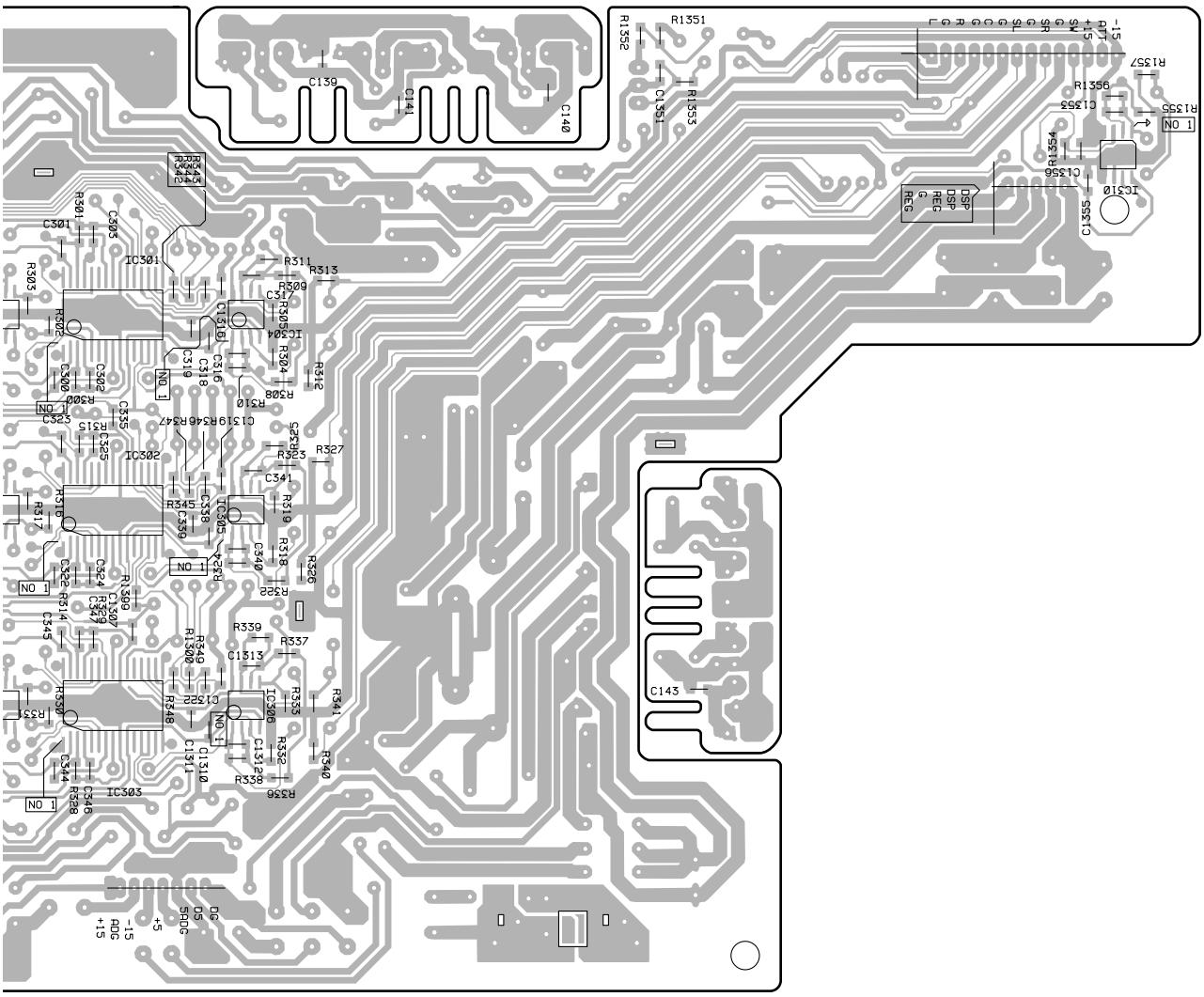





FM/AM TUNER UNIT
B CN202
KNIFE SPACE
WARNING
LEAD IN SOLDER USED IN THIS PRODUCT IS LISTED AS KNOWN REPRODUCTIVE TOXICANT BY THE CALIFORNIA HEALTH AND WELFARE AGENCY. ALSO, CERTAIN ELECTRICAL PARTS CONTAIN CHEMICAL LISTED AS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. (CALIFORNIA HEALTH & SAFETY CODE, SECTION 25249.5) FOLLOW MANUFACTURER'S SERVICE INFORMATION AND USE PROPER PRECAUTIONS.
VCR2
VCR1
DVD/LD TV/SAT
TAPE2 MD/TAPE
CD
MD/TAPE TUNER AUX
REC
PLAY
(ANP7266-A)
P CN9802
P CN9801
N CN507
IC102
IC103
Q104-Q107
Q101-Q103
IC101
SIDE A
A
27

A INPUT ASSY



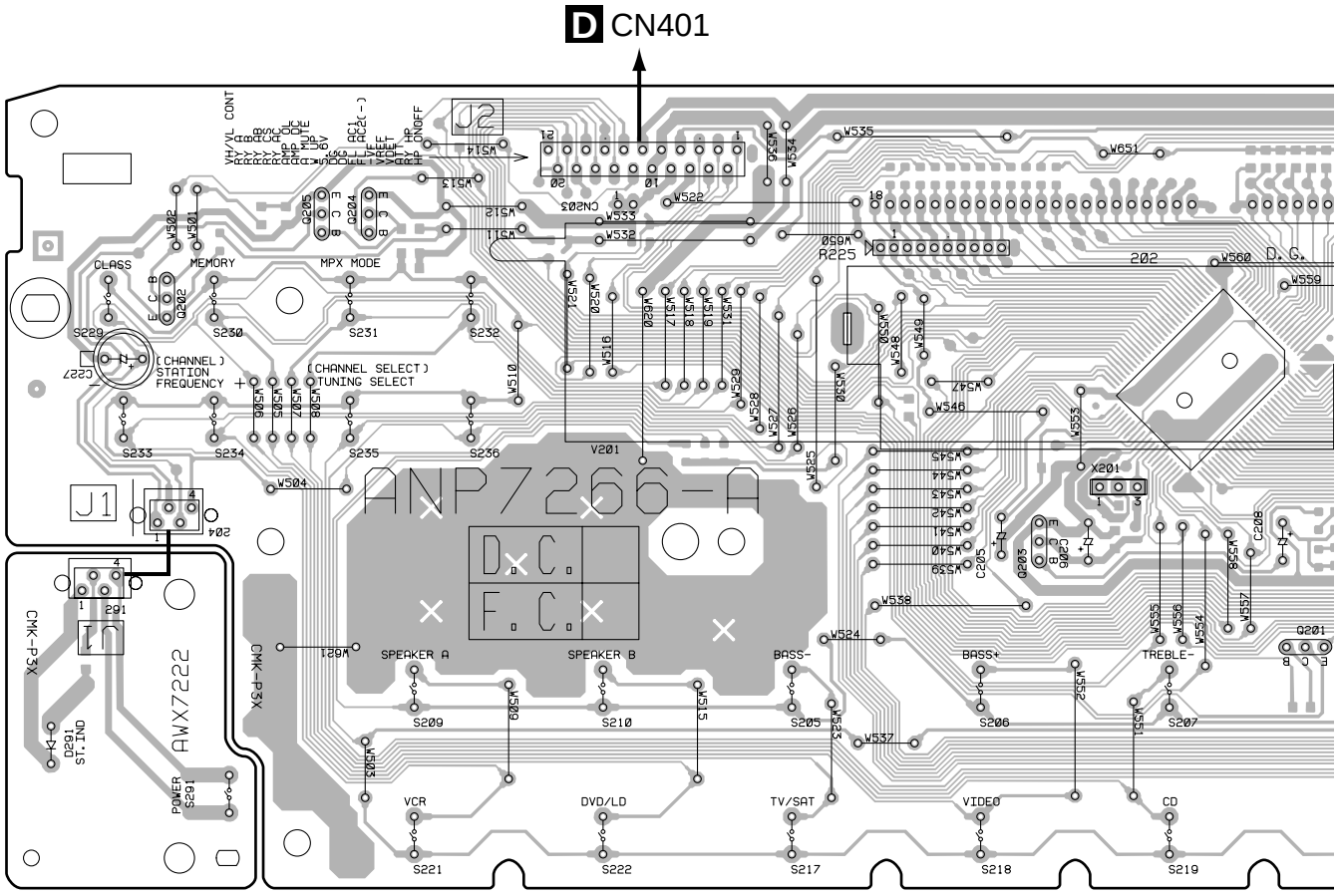


(ANP7266-A)

)7-IC309 IC301-IC303 IC304-IC306 IC310

SIDE B

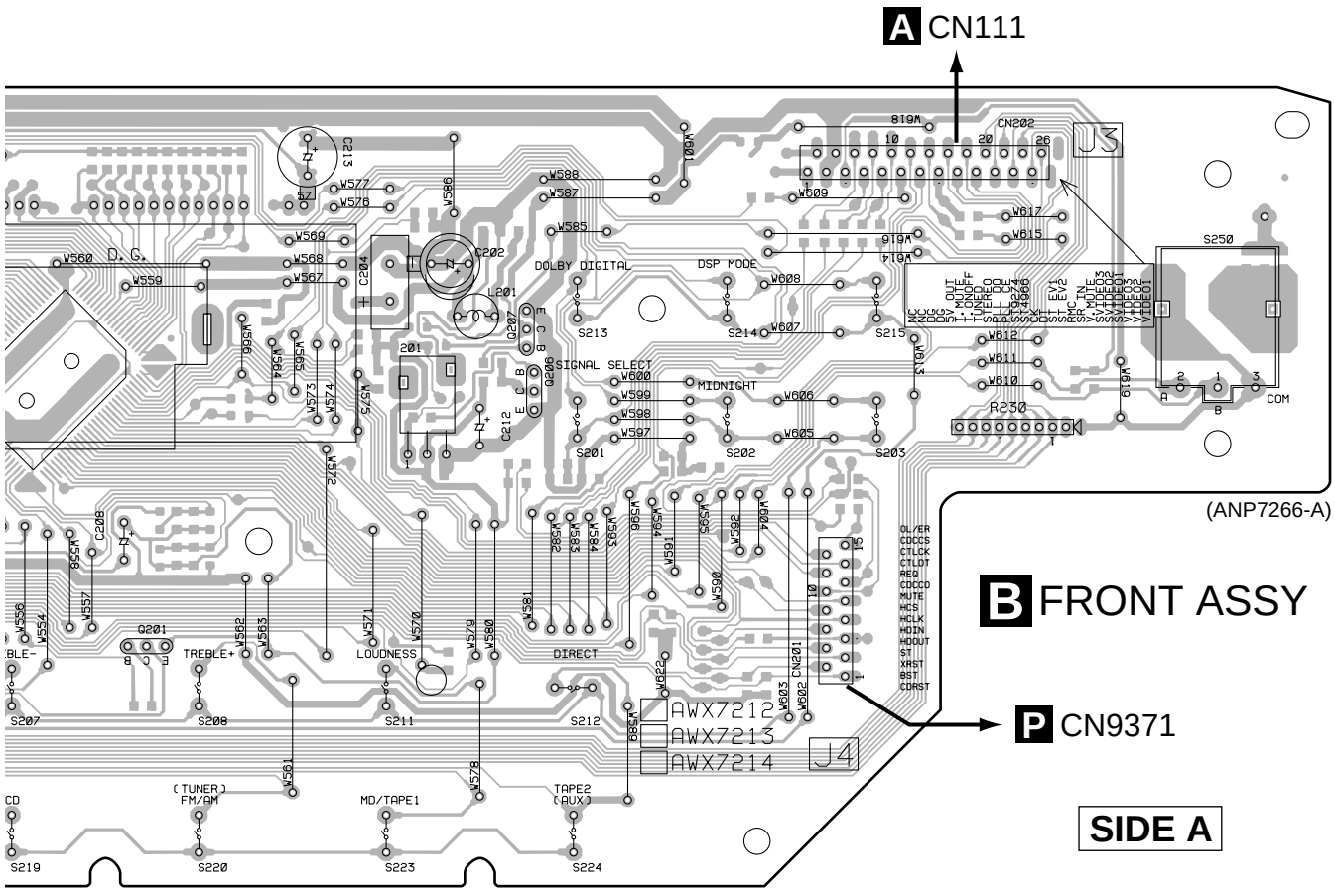
4.2 FRONT and POWER SW ASSEMBLIES

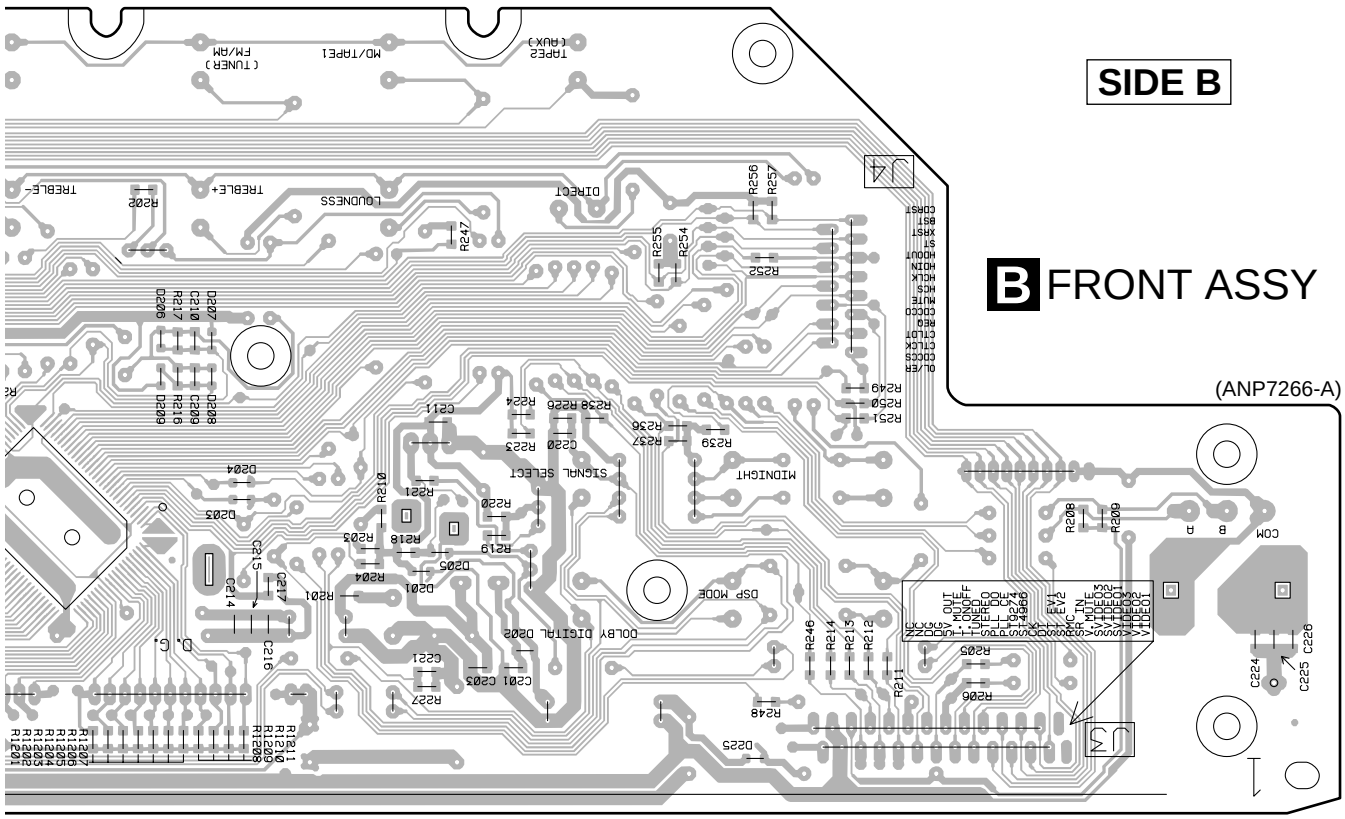


C POWER SW ASSY

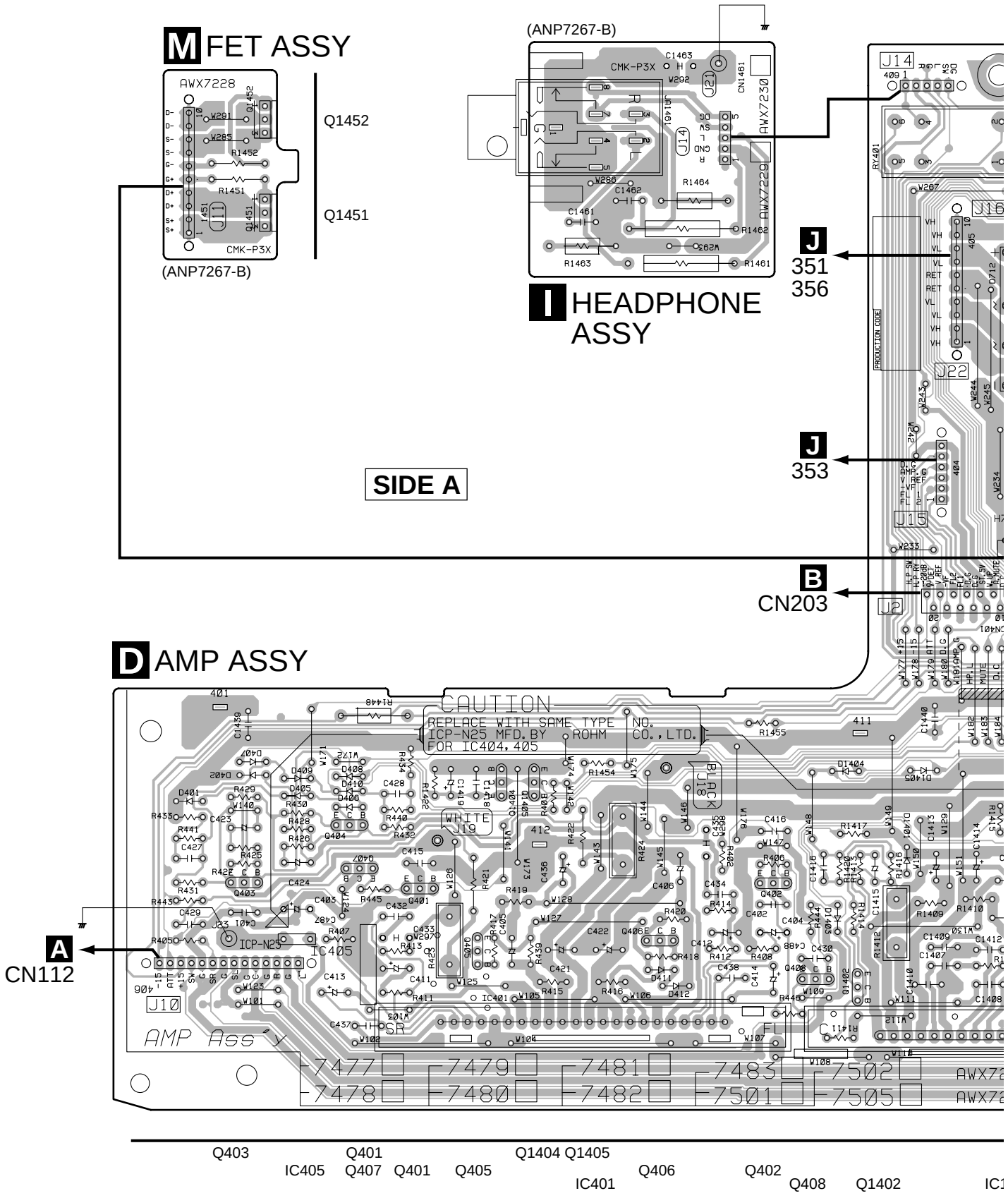
Q202 Q205 Q204 Q203 Q201

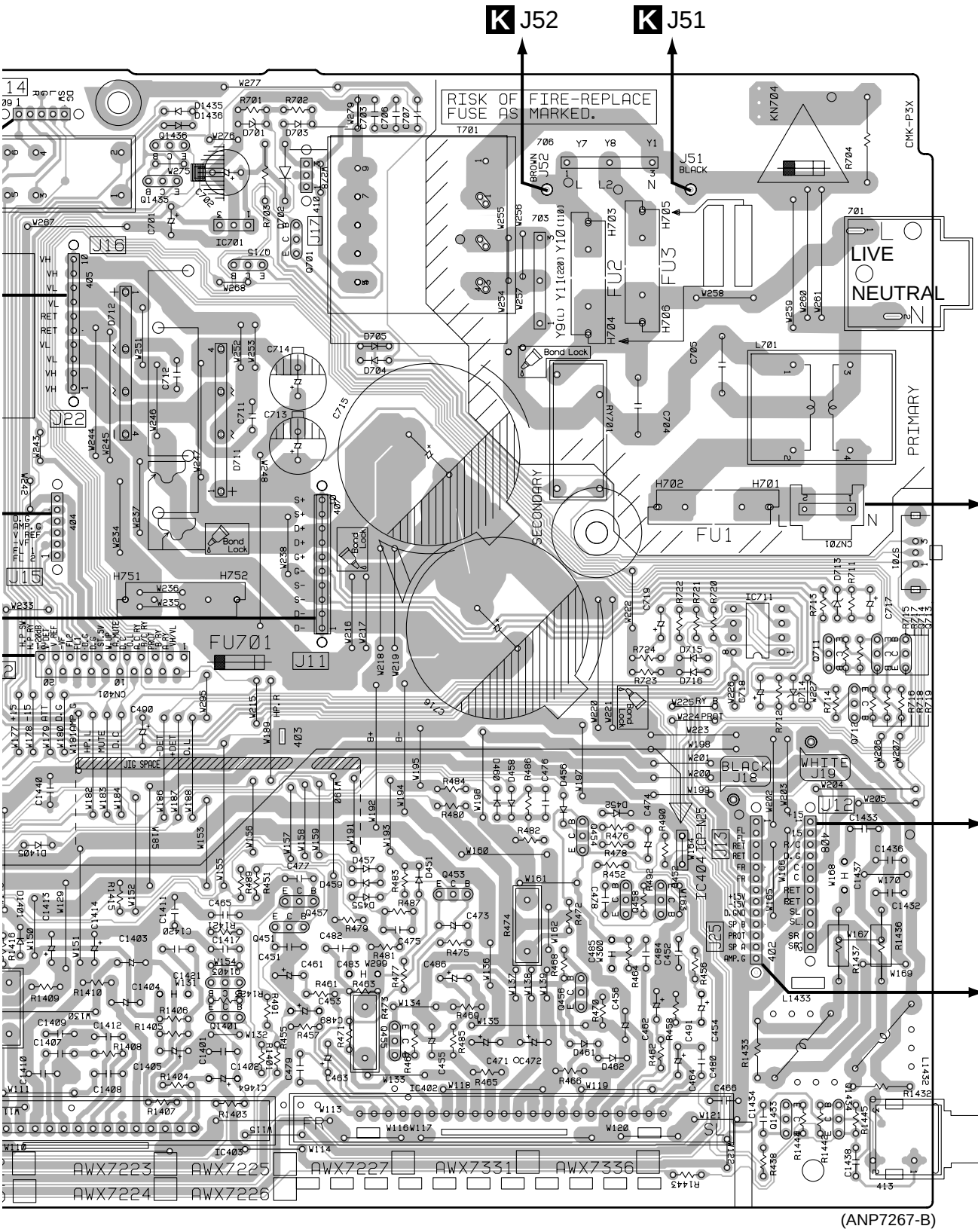
IC201


A CN111
B FRONT ASSY
(ANP7266-A)
P CN9371
SIDE A
Q201
Q207 Q206


SIDE B
B FRONT ASSY
(ANP7266-A)
IC201

4.3 AMP, HEADPHONE and FET ASSEMBLIES

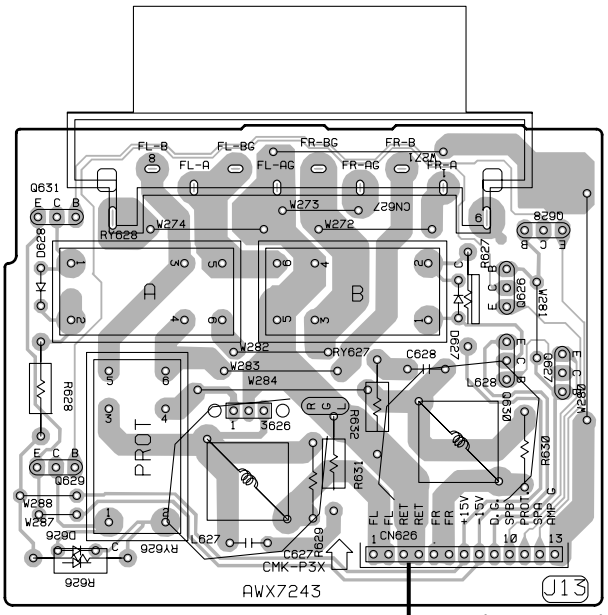




Q1436 Q1435 IC701 Q701 Q715 Q453 Q454 IC711
)2 IC1403 Q1403 Q1401 Q451 Q457 IC402 Q456 Q458 IC404 Q711-Q714
Q452 Q1433 Q1434

4.4 F.SP.CONNECT, R.C.SP.CONNECT, FRONT SP. and REAR SP ASSEMBLIES

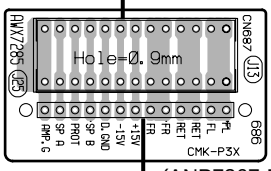
G FRONT SP. ASSY



(ANP7267-B)

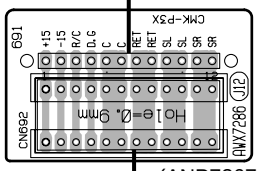
D 408

E F.SP. CONNECT ASSY



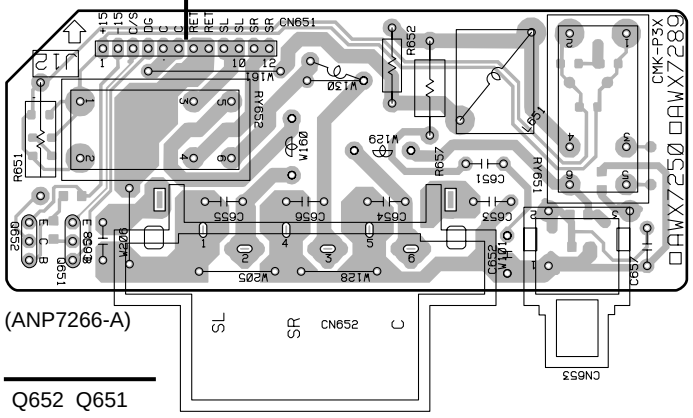
(ANP7267-B)

F R.C.SP. CONNECT ASSY



(ANP7267-B)

D 402



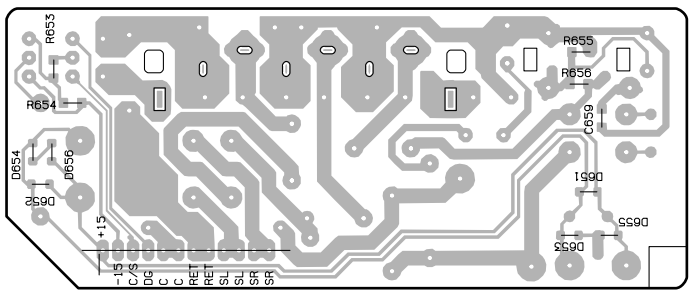
(ANP7266-A)

Q652 Q651

SIDE A

H REAR SP ASSY

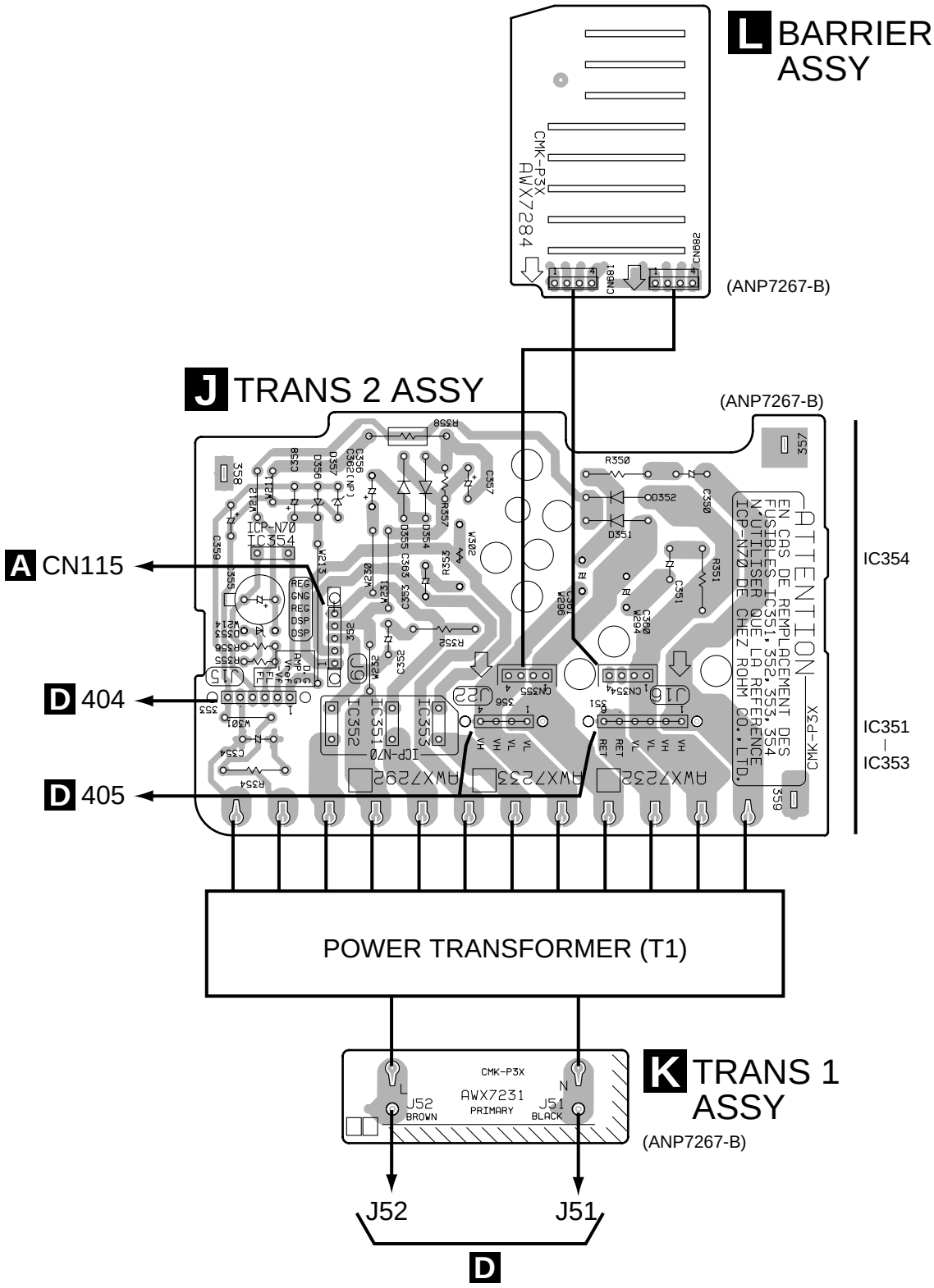
H REAR SP ASSY



SIDE B

(ANP7266-A)

4.5 TRANS 2, TRANS 1 and BARRIER ASSEMBLIES



SIDE A

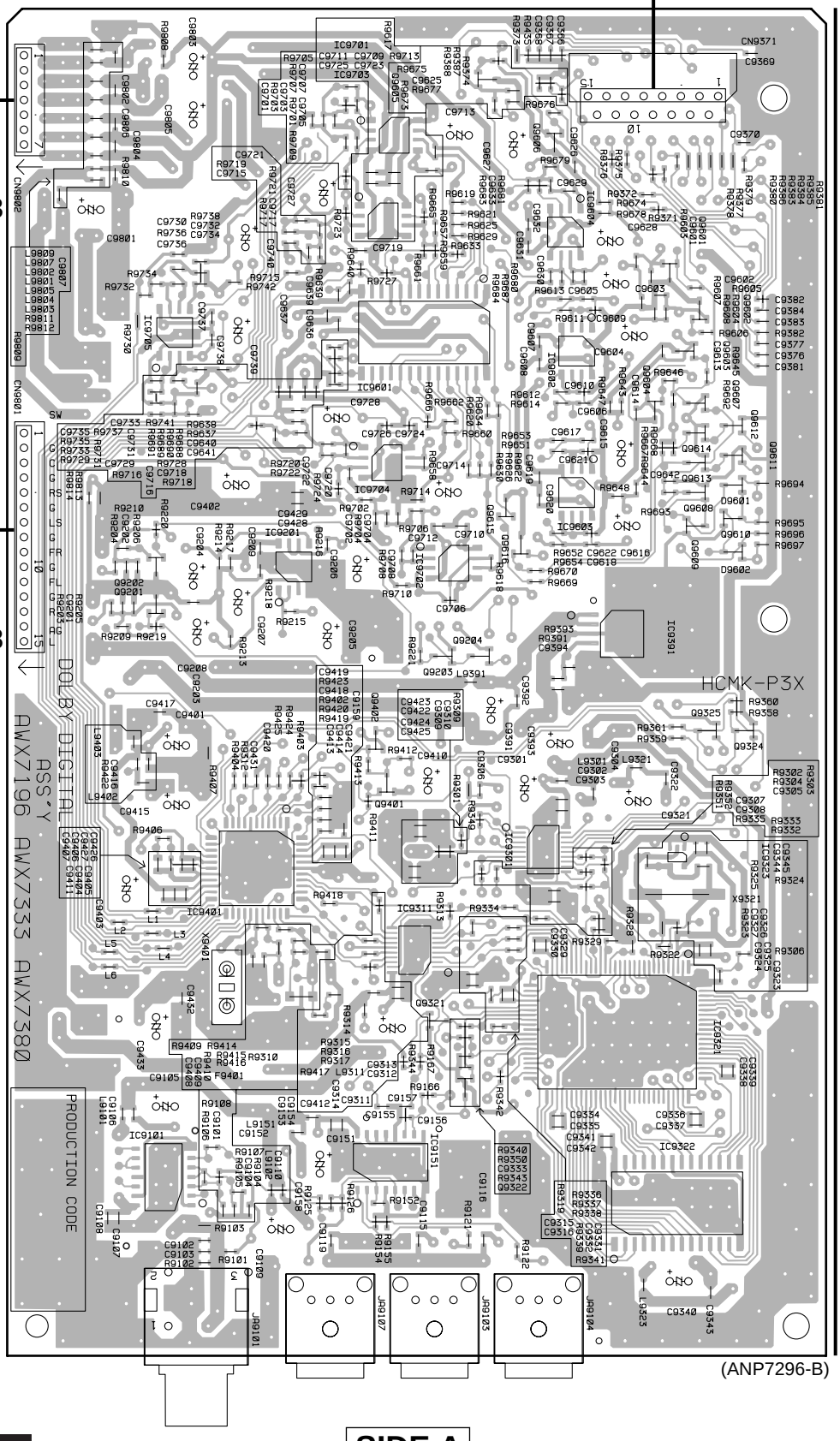
4.6 DOLBY DIGITAL ASSY

P DOLBY DIGITAL ASSY

B CN201

A CN113

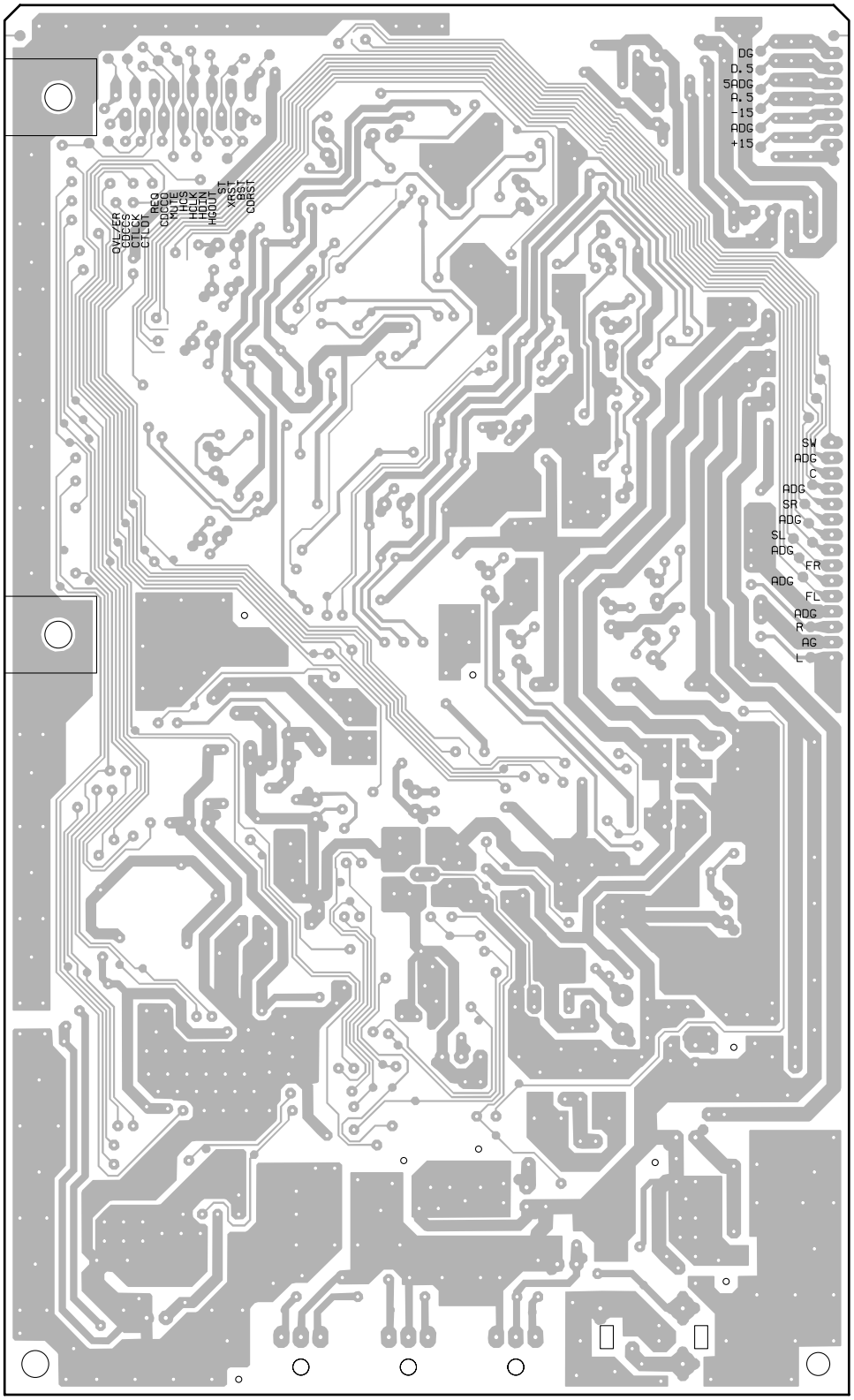
A CN108



IC9701
IC9703
Q9605 Q9606
IC9604
Q9602
Q9604
IC9705 IC9601 IC9602 Q9611
Q9614
IC9704 IC9603 Q9608
Q9610
Q9202 IC9201 Q9615
Q9201 IC9702 Q9616
IC9391
Q9402 Q9325
Q9324
Q9401
IC9301 IC9323
IC9401 IC9311
Q9321 IC9321
IC9101 IC9151 IC9322

SIDE A

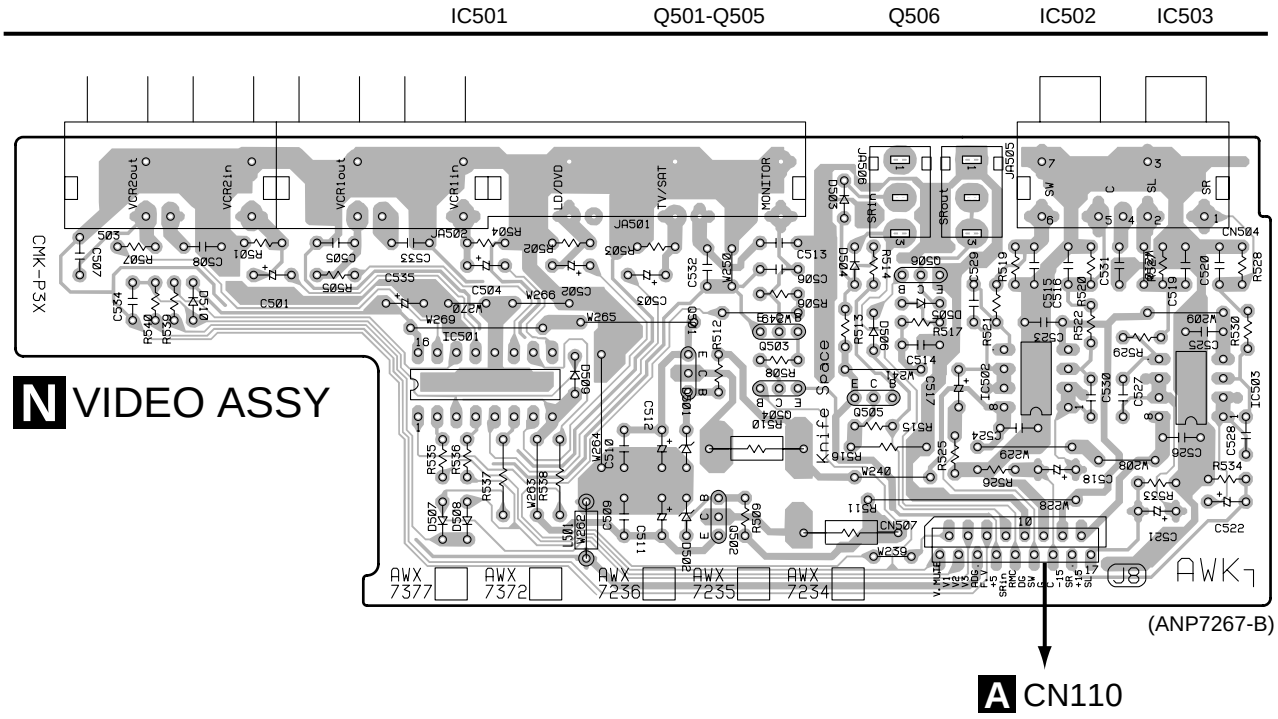
P DOLBY DIGITAL ASSY



(ANP7296-B)

SIDE B

4.7 VIDEO ASSY



SIDE A

5. PCB PARTS LIST

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
560 Ω → 56 × 10¹ → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10³ → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K
Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62k Ω → 562 × 10¹ → 5621 ..... RN1/4PC 5 6 2 1 F

■ LIST OF WHOLE PCB ASSEMBLIES

Mark	PCB Assemblies	Part No. VSX-D508 KUXJI Type	Part No. VSX-D508 KCXJI Type	Remarks
NSP	INPUT ASSY	AWK7469	AWK7469	
	├ INPUT ASSY	AWX7207	AWX7207	
	├ FRONT ASSY	AWX7212	AWX7212	
NSP	├ POWER SW ASSY	AWX7222	AWX7222	
NSP	└ REAR SP ASSY	AWX7250	AWX7250	
NSP	AMP ASSY	AWK7477	AWK7501	
	├ AMP ASSY	AWX7223	AWX7331	
NSP	├ FET ASSY	AWX7228	AWX7228	
NSP	├ HEADPHONE ASSY	AWX7229	AWX7229	
	├ TRANS 1 ASSY	AWX7231	AWX7231	
	├ TRANS 2 ASSY	AWX7232	AWX7232	
	├ VIDEO ASSY	AWX7234	AWX7234	
NSP	├ FRONT VIDEO ASSY	AWX7239	AWX7239	
	├ FRONT SP. ASSY	AWX7243	AWX7243	
	├ BARRIER ASSY	AWX7284	AWX7284	
NSP	├ F.SP.CONNECT ASSY	AWX7285	AWX7285	
NSP	└ R.C.SP.CONNECT ASSY	AWX7286	AWX7286	
	DOLBY DIGITAL ASSY	AWX7333	AWX7333	

■ PARTS LIST

A INPUT ASSY

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC101	ANALOG SW ARRAY IC	TC9274N-001
	IC102	E-SW IC	LC4966
	IC103	E-SW IC	LC4966
⚠	IC104	REGULATOR IC	NJM78M15FA
⚠	IC105	REGULATOR IC	NJM79M15FA
⚠	IC106	REGULATOR IC	NJM78M12FA
⚠	IC107	REGULATOR IC	NJM7805FA
⚠	IC108	REGULATOR IC	NJM7805FA
	IC109	OP-AMP IC	UPC4570G2
	IC301	E-VR IC	LC7535M
	IC302	E-VR IC	LC7535M
	IC303	E-VR IC	LC7535M
	IC304	OP-AMP IC	UPC4570G2
	IC305	OP-AMP IC	UPC4570G2
	IC306	OP-AMP IC	UPC4570G2
	IC307	OP-AMP IC	UPC4570G2
	IC308	OP-AMP IC	UPC4570G2
	IC309	OP-AMP IC	UPC4570G2
	IC310	OP-AMP IC	UPC4570G2
	Q101	TRANSISTOR	2SC1740S
	Q102	TRANSISTOR	KRC103M
	Q103	TRANSISTOR	KRA103M
	Q104	TRANSISTOR	2SC1740S
	Q105	TRANSISTOR	KRA101M
	Q106	TRANSISTOR	KRC103M
	Q1351	TRANSISTOR	2SC2878
	D101	DIODE	S5566G(TPB2)
	D102	DIODE	S5566G(TPB2)
	D103	DIODE	S5566G(TPB2)
	D104	DIODE	S5566G(TPB2)
	D105	DIODE	S5566G(TPB2)
	D106	DIODE	S5566G(TPB2)
	D107	DIODE	S5566G(TPB2)
	D108	DIODE	S5566G(TPB2)
	D109	DIODE	1SS355
	D110	CHIP ZENER DIODE	UDZS5.1B

CAPACITORS

Mark	No.	Description	Parts No.
	C127	ELECT. CAPACITOR	CEAT2R2M50
	C128	ELECT. CAPACITOR	CEAT2R2M50
	C129	ELECT. CAPACITOR	CEAT4R7M50
	C130	ELECT. CAPACITOR	CEAT4R7M50
	C1300	ELECT. CAPACITOR	CEAT100M50

Mark	No.	Description	Parts No.
	C1301	ELECT. CAPACITOR	CEAT100M50
	C1302	ELECT. CAPACITOR	CEAT1R0M50
	C1303	ELECT. CAPACITOR	CEAT1R0M50
	C1306	CERAMIC CAPACITOR	CKSQYB103K50
	C1307	CERAMIC CAPACITOR	CKSQYB103K50
	C131	CHIP CAPACITOR	CCSQCH101J50
	C1310	CERAMIC CAPACITOR	CKSQYB103K50
	C1311	CERAMIC CAPACITOR	CKSQYB103K50
	C1312	CHIP CAPACITOR	CCSQCH680J50
	C1313	CHIP CAPACITOR	CCSQCH680J50
	C1314	ELECT. CAPACITOR	CEAT470M25
	C1315	ELECT. CAPACITOR	CEAT470M25
	C1316	CERAMIC CAPACITOR	CCSQCH561J50
	C1319	CERAMIC CAPACITOR	CCSQCH561J50
	C132	CHIP CAPACITOR	CCSQCH101J50
	C1322	CERAMIC CAPACITOR	CCSQCH561J50
	C133	CHIP CAPACITOR	CCSQCH101J50
	C134	ELECT. CAPACITOR	CEAT101M25
	C135	ELECT. CAPACITOR	CEAT101M25
	C1351	CHIP CAPACITOR	CKSQYB102K50
	C1352	ELECT. CAPACITOR	CEAT4R7M50
	C1353	CHIP CAPACITOR	CKSQYB222K50
	C1354	ELECT. CAPACITOR	CEAT4R7M50
	C1355	CERAMIC CAPACITOR	CKSQYB103K50
	C1356	CERAMIC CAPACITOR	CKSQYB103K50
	C136	ELECT. CAPACITOR	CEAT101M25
	C137	ELECT. CAPACITOR	CEAT101M10
	C138	ELECT. CAPACITOR	CEAT101M10
	C139	CERAMIC CAPACITOR	CKSQYB103K50
	C140	CERAMIC CAPACITOR	CKSQYB103K50
	C141	CERAMIC CAPACITOR	CKSQYB103K50
	C142	ELECT. CAPACITOR	CEAT470M35
	C143	CERAMIC CAPACITOR	CKSQYB103K50
	C144	ELECT. CAPACITOR	CEAT332M35
	C145	ELECT. CAPACITOR	CEAT222M35
	C146	ELECT. CAPACITOR	CEAT332M16
	C147	ELECT. CAPACITOR	CEAT101M16
	C148	CERAMIC CAPACITOR	CKSQYB103K50
	C149	CERAMIC CAPACITOR	CKSQYB103K50
	C150	CERAMIC CAPACITOR	CKSQYB103K50
	C151	CERAMIC CAPACITOR	CKSQYB103K50
	C153	ELECT. CAPACITOR	CEAT100M50
	C154	CERAMIC CAPACITOR	CKSQYB103K50
	C155	CERAMIC CAPACITOR	CKSQYB103K50
	C157	CERAMIC CAPACITOR	CKSQYB103K50
	C300	CHIP CAPACITOR	CCSQCH102J50
	C301	CHIP CAPACITOR	CCSQCH102J50
	C302	CHIP CAPACITOR	CKSQYB683K25
	C303	CHIP CAPACITOR	CKSQYB683K25
	C304	ELECT. CAPACITOR	CEAT1R0M50
	C305	ELECT. CAPACITOR	CEAT1R0M50
	C306	ELECT. CAPACITOR	CEAT100M50
	C307	ELECT. CAPACITOR	CEAT100M50
	C308	ELECT. CAPACITOR	CEAT1R0M50
	C309	ELECT. CAPACITOR	CEAT1R0M50
	C312	CERAMIC CAPACITOR	CKSQYB103K50
	C313	CERAMIC CAPACITOR	CKSQYB103K50
	C316	CHIP CAPACITOR	CCSQCH121J50
	C318	CERAMIC CAPACITOR	CKSQYB103K50
	C319	CERAMIC CAPACITOR	CKSQYB103K50
	C320	ELECT. CAPACITOR	CEAT470M25
	C321	ELECT. CAPACITOR	CEAT470M25
	C322	CHIP CAPACITOR	CCSQCH102J50
	C323	CHIP CAPACITOR	CCSQCH102J50
	C324	CHIP CAPACITOR	CKSQYB683K25
	C325	CHIP CAPACITOR	CKSQYB683K25
	C326	ELECT. CAPACITOR	CEAT1R0M50
	C327	ELECT. CAPACITOR	CEAT1R0M50
	C328	ELECT. CAPACITOR	CEAT100M50
	C329	ELECT. CAPACITOR	CEAT100M50
	C330	ELECT. CAPACITOR	CEAT1R0M50
	C331	ELECT. CAPACITOR	CEAT1R0M50
	C334	CERAMIC CAPACITOR	CKSQYB103K50
	C335	CERAMIC CAPACITOR	CKSQYB103K50
	C338	CERAMIC CAPACITOR	CKSQYB103K50
	C339	CERAMIC CAPACITOR	CKSQYB103K50
	C340	CHIP CAPACITOR	CCSQCH121J50
	C341	CHIP CAPACITOR	CCSQCH121J50
	C342	ELECT. CAPACITOR	CEAT470M25
	C343	ELECT. CAPACITOR	CEAT470M25
	C344	CHIP CAPACITOR	CCSQCH102J50
	C345	CHIP CAPACITOR	CCSQCH102J50
	C346	CHIP CAPACITOR	CKSQYB683K25
	C347	CHIP CAPACITOR	CKSQYB683K25
	C348	ELECT. CAPACITOR	CEAT1R0M50
	C349	ELECT. CAPACITOR	CEAT1R0M50

RESISTORS

	All Resistors	RS1/10S□□□J

OTHERS

120	PCB BINDER	VEF1040
121	PCB BINDER	VEF1040
122	PCB BINDER	VEF1040
CN105	CONNECTOR POST	B5B-PH-K-S
CN108	15P PLUG	KM200TA15
CN110	CONNECTOR	52045-1745
CN111	26P CONNECTOR	52045-2645
CN112	14PJUMPER CONNECTOR	52147-1410
CN113	7P PLUG	KM200TA7
CN114	CONNECTOR	52045-1345
CN115	5P JUMPER CONNECTOR	52147-0510
JA101	PIN JACK(6P)	AKB7113
JA102	PIN JACK(6P)	AKB7113
JA103	PIN JACK(6P)	AKB7113

B FRONT ASSY

SEMICONDUCTORS

IC201	CONTROL MCU	PDG230A
Q201	TRANSISTOR	2SA933S
Q202	TRANSISTOR	2SA933S
Q203	TRANSISTOR	KRC101M
Q204	TRANSISTOR	KRC101M
Q205	TRANSISTOR	KRC101M
Q206	TRANSISTOR	2SC1740S
Q207	TRANSISTOR	2SC1740S
D201	DIODE	1SS355
D202	DIODE	1SS355

Mark	No.	Description	Parts No.
	D203	DIODE	1SS355
	D204	DIODE	1SS355
	D205	DIODE	1SS355
	D206	DIODE	1SS355
	D207	DIODE	1SS355
	D208	DIODE	1SS355
	D209	DIODE	1SS355
	D210	DIODE	1SS355
	D211	DIODE	1SS355
	D212	DIODE	1SS355
	D213	DIODE	1SS355
	D214	DIODE	1SS355
	D215	DIODE	1SS355
	D216	DIODE	1SS355
	D217	DIODE	1SS355
	D218	DIODE	1SS355
	D219	DIODE	1SS355
	D220	DIODE	1SS355
	D221	DIODE	1SS355
	D225	DIODE	1SS355
	D226	DIODE	1SS355
	D227	CHIP ZENER DIODE	UDZS5.1B
	D228	CHIP ZENER DIODE	UDZS5.1B
	D229	DIODE	1SS355
COIL			
	L201	RADIAL INDUCTOR	LFA2R2J
SWITCHES			
	S201	SWITCH	ASG1034
	S202	SWITCH	ASG1034
	S205	SWITCH	ASG1034
	S206	SWITCH	ASG1034
	S207	SWITCH	ASG1034
	S208	SWITCH	ASG1034
	S209	SWITCH	ASG1034
	S210	SWITCH	ASG1034
	S211	SWITCH	ASG1034
	S212	SWITCH	ASG1034
	S213	SWITCH	ASG1034
	S214	SWITCH	ASG1034
	S217	SWITCH	ASG1034
	S218	SWITCH	ASG1034
	S219	SWITCH	ASG1034
	S220	SWITCH	ASG1034
	S221	SWITCH	ASG1034
	S222	SWITCH	ASG1034
	S223	SWITCH	ASG1034
	S224	SWITCH	ASG1034
	S229	SWITCH	ASG1034
	S230	SWITCH	ASG1034
	S231	SWITCH	ASG1034
	S233	SWITCH	ASG1034
	S234	SWITCH	ASG1034
	S235	SWITCH	ASG1034
	S250	ROTARY ENCODER	ASX7004
CAPACITORS			
	C201	CERAMIC CAPACITOR	CKSQYB103K50
	C202	ELECT. CAPACITOR	CEAT471M6R3
	C203	CERAMIC CAPACITOR	CKSQYB103K50
	C204	EDL CAPACITOR(0.047F/5.5V)	ACH7017
	C205	ELECT. CAPACITOR	CEAT470M50
	C206	ELECT. CAPACITOR	CEAT2R2M50
	C207	CERAMIC CAPACITOR	CKSQYF104Z25
	C208	ELECT. CAPACITOR	CEAT2R2M50
	C209	CERAMIC CAPACITOR	CKSQYB473K50
	C210	CERAMIC CAPACITOR	CKSQYB473K50
	C211	CERAMIC CAPACITOR	CKSQYB103K50
	C212	ELECT. CAPACITOR	CEAT470M25
	C214	CERAMIC CAPACITOR	CKSQYB104K25
	C217	CHIP CAPACITOR	CCSQCH102J50
	C220	CHIP CAPACITOR	CCSQCH101J50
	C221	CHIP CAPACITOR	CCSQCH101J50
	C222	CHIP CAPACITOR	CCSQCH101J50
	C227	ELECT. CAPACITOR	CEJA221M6R3
RESISTORS			
	R225	RESISTOR ARRAY (100KΩ)	RA9T104J
	R230	RESISTOR ARRAY (10KΩ)	RA8T103J
	Other Resistors		RS1/10S□□□J
OTHERS			
	201	REMOTE RECEIVER UNIT	GP1U27X
	204	CABLE HOLDER (4P)	51063-0405
	CN201	15P CONNECTOR	52044-1545
	CN202	26P CONNECTOR	52045-2645
	CN203	21P CONNECTOR	52045-2145
	V201	FL TUBE	AAV7062
	X201	CERAMIC RESONATOR (7.7MHz)	ASS1055

C POWER SW ASSY

SEMICONDUCTOR

	D291	LED	BR3371XJ30A

SWITCH

	S291	SWITCH	ASG1034

RESISTORS

	All Resistors		RS1/10S□□□J

OTHERS

	291	CABLE HOLDER(4P)	51063-0405

D AMP ASSY

(1) CONTRAST TABLE

AWX7223 and AWX7331 are constructed the same except for the following :

Mark	Symbol and Description	Part No.		Remarks
		AWX7223	AWX7331	
	H751, H752 FUSE CLIP	Not used	AKR1004	

(2) PARTS LIST FOR AWX7223

SEMICONDUCTORS

⚠	IC401	AUDIO IC	PAC007A
⚠	IC402	AUDIO IC	PAC007A
⚠	IC403	AUDIO IC	PAC008A
⚠	IC404	IC PROTECTOR	ICP-N25
⚠	IC405	IC PROTECTOR	ICP-N25

Mark	No.	Description	Parts No.
⚠	IC701	REGULATOR IC	NJM78M56FA
	IC711	OP-AMP IC	NJM4558D-D
	Q1401	TRANSISTOR	2SC2878
	Q1402	TRANSISTOR	2SC2240
	Q1403	TRANSISTOR	2SC2878
	Q1404	TRANSISTOR	2SC1740S
	Q1405	TRANSISTOR	2SC1740S
	Q1434	TRANSISTOR	2SC2878
	Q1435	TRANSISTOR	KRC101M
	Q1436	TRANSISTOR	KRA103M
	Q401	TRANSISTOR	2SC2878
	Q402	TRANSISTOR	2SC2878
	Q403	TRANSISTOR	2SC2240
	Q404	TRANSISTOR	2SC2240
	Q405	TRANSISTOR	2SC2705
	Q406	TRANSISTOR	2SC2705
	Q407	TRANSISTOR	2SC2878
	Q408	TRANSISTOR	2SC2878
	Q451	TRANSISTOR	2SC2878
	Q452	TRANSISTOR	2SC2878
	Q453	TRANSISTOR	2SC2240
	Q454	TRANSISTOR	2SC2240
	Q455	TRANSISTOR	2SC2705
	Q456	TRANSISTOR	2SC2705
	Q457	TRANSISTOR	2SC2878
	Q458	TRANSISTOR	2SC2878
	Q701	TRANSISTOR	KRC101M
	Q711	TRANSISTOR	2SC1845
	Q712	TRANSISTOR	2SA992
	Q713	TRANSISTOR	KRC103M
	Q714	TRANSISTOR	KRA103M
	Q715	TRANSISTOR	KRC103M
	D1401	DIODE	1SS133
	D1403	DIODE	1SS133
	D1404	DIODE	1SS133
	D1405	DIODE	1SS133
	D1435	DIODE	1SS133
	D401	DIODE	1SS133
	D402	DIODE	1SS133
	D405	DIODE	1SS133
	D406	DIODE	1SS133
	D407	DIODE	1SS133
	D408	DIODE	1SS133
	D409	DIODE	1SS133
	D410	DIODE	1SS133
	D411	DIODE	1SS133
	D412	DIODE	1SS133
	D451	DIODE	1SS133
	D452	DIODE	1SS133
	D455	DIODE	1SS133
	D456	DIODE	1SS133
	D457	DIODE	1SS133
	D458	DIODE	1SS133
	D459	DIODE	1SS133
	D460	DIODE	1SS133
	D461	DIODE	1SS133
	D462	DIODE	1SS133
	D701	ZENER DIODE	MTZJ5.1A
	D702	DIODE	S5688G
	D703	DIODE	1SS133
	D704	DIODE	1SS133
⚠	D711	DIODE	D5SBA20
⚠	D712	DIODE	D5SBA20
	D713	ZENNER DIODE	MTZJ18B
	D714	ZENNER DIODE	MTZJ18B
	D715	DIODE	1SS133
	D716	DIODE	1SS133

COILS AND FILTERS

	L1432	COIL	ATH1004
	L1433	COIL	ATH1004
⚠	L701	LINE FILTER	ATF7018

SWITCHES AND RELAYS

⚠	RY401	RELAY	ASR7001
⚠	RY701	LOWPOWER RELAY	ASR7016
	S701	SLIDE SWITCH	ASH7002

CAPACITORS

	C1401	CERAMIC CAPACITOR	CKCYB331K50
	C1402	ELECT. CAPACITOR	CEHAQ4R7M50
	C1403	ELECT. CAPACITOR	CEANP2R2M2A
	C1404	ELECT. CAPACITOR	CEANP2R2M2A
	C1405	ELECT. CAPACITOR	CEHAQ101M25
	C1407	CERAMIC CAPACITOR	CKCYB471K50
	C1408	CERAMIC CAPACITOR	CCCSL101K2H
	C1409	CERAMIC CAPACITOR	CKCYB471K50
	C1410	CERAMIC CAPACITOR	CCCSL101K2H
	C1411	CERAMIC CAPACITOR	CCCSL221J50
	C1412	CERAMIC CAPACITOR	CKCYB471K2H
	C1413	ELECT. CAPACITOR	CEAT4R7M2A
	C1414	ELECT. CAPACITOR	CEAT4R7M2A
	C1415	ELECT. CAPACITOR	CEANP2R2M50
	C1416	FILM CAPACITOR	CFTLA334J50
	C1417	CERAMIC CAPACITOR	CKCYB102K50
	C1418	CERAMIC CAPACITOR	CKCYB102K50
	C1419	ELECT. CAPACITOR	CEAT221M10
	C1420	CERAMIC CAPACITOR	CCCSL180J50
	C1432	AUDIO FILM CAPACITOR	CFTYA104J50
	C1433	AUDIO FILM CAPACITOR	CFTYA104J50
	C1440	CERAMIC CAPACITOR	CGCYX104M25
	C401	CERAMIC CAPACITOR	CKCYB331K50
	C402	CERAMIC CAPACITOR	CKCYB331K50
	C403	ELECT. CAPACITOR	CEAT4R7M50
	C404	ELECT. CAPACITOR	CEAT4R7M50
	C405	ELECT. CAPACITOR	CEANP2R2M2A
	C406	ELECT. CAPACITOR	CEANP2R2M2A
	C411	ELECT. CAPACITOR	CEHAQ101M25
	C412	ELECT. CAPACITOR	CEAT101M25
	C413	ELECT. CAPLACIOR	CEHAQ1R0M50
	C414	ELECT. CAPACITOR	CEAT1R0M50
	C415	CERAMIC CAPACITOR	CCCSL221J50
	C416	CERAMIC CAPACITOR	CCCSL221J50
	C421	ELECT. CAPACITOR	CEAT4R7M2A
	C422	ELECT. CAPACITOR	CEAT4R7M2A
	C423	ELECT. CAPACITOR	CEANP2R2M50
	C424	ELECT. CAPACITOR	CEANP2R2M50
	C427	FILM CAPACITOR	CFTLA334J50
	C428	FILM CAPACITOR	CFTLA334J50
	C429	CERAMIC CAPACITOR	CKCYB102K50
	C430	CERAMIC CAPACITOR	CKCYB102K50
	C436	ELECT. CAPACITOR	CEAT101M10
	C437	CERAMIC CAPACITOR	CCCSL470J50
	C438	CERAMIC CAPACITOR	CCCSL470J50

Mark	No.	Description	Parts No.
	C451	CERAMIC CAPACITOR	CKCYB331K50
	C452	CERAMIC CAPACITOR	CKCYB331K50
	C453	ELECT. CAPACITOR	CEAT4R7M50
	C454	ELECT. CAPACITOR	CEAT4R7M50
	C455	ELECT. CAPACITOR	CEANP2R2M2A
	C456	ELECT. CAPACITOR	CEANP2R2M2A
	C461	ELECT. CAPACITOR	CEAT101M25
	C462	ELECT. CAPACITOR	CEAT101M25
	C463	ELECT. CAPACITOR	CEAT1R0M50
	C464	ELECT. CAPACITOR	CEAT1R0M50
	C465	CERAMIC CAPACITOR	CCCSL221J50
	C466	CERAMIC CAPACITOR	CCCSL221J50
	C471	ELECT. CAPACITOR	CEAT4R7M2A
	C472	ELECT. CAPACITOR	CEAT4R7M2A
	C473	ELECT. CAPACITOR	CEANP2R2M50
	C474	ELECT. CAPACITOR	CEANP2R2M50
	C475	FILM CAPACITOR	CFTLA334J50
	C476	FILM CAPACITOR	CFTLA334J50
	C477	CERAMIC CAPACITOR	CKCYB102K50
	C478	CERAMIC CAPACITOR	CKCYB102K50
	C479	CERAMIC CAPACITOR	CCCSL470J50
	C480	CERAMIC CAPACITOR	CCCSL470J50
	C486	ELECT. CAPACITOR	CEAT101M10
	C490	ELECT. CAPACITOR	CEAT1R0M50
	C701	ELECT. CAPACITOR	CEAT470M25
	C702	ELECT. CAPACITOR	CEAT102M25
	C703	CERAMIC CAPACITOR	CKCYF103Z50
⚠	C704	CKA (10000pF/AC250V)	ACG7020
⚠	C705	CKA (10000pF/AC250V)	ACG7020
	C706	CERAMIC CAPACITOR	CKCYF103Z50
	C707	CERAMIC CAPACITOR	CKCYF103Z50
⚠	C711	CKA (0.01F/AC250V)	ACG1005
⚠	C712	CKA (0.01F/AC250V)	ACG1005
	C713	ELECT. CAPACITOR	CEAT101M2A
	C714	ELECT. CAPACITOR	CEAT101M2A
	C715	ELECTROLYTIC CAPACIT (8200µF/71V)	ACH7018
	C716	ELECTROLYTIC CAPACIT (8200µF/71V)	ACH7018
	C717	ELECT. CAPACITOR	CEAT1R0M50
	C718	ELECT. CAPACITOR	CEAT1R0M50
	C719	ELECT. CAPACITOR	CEAT4R7M50

RESISTORS

⚠	R1409	CARBON FILM RESISTOR	RD1/4MUF331J
⚠	R1410	CARBON FILM RESISTOR	RD1/4MUF331J
⚠	R1412	RESISTOR (0.22Ω/5W)	ACN7094
⚠	R1432	CARBON FILM RESISTOR	RD1/4PMF4R7J
⚠	R1433	CARBON FILM RESISTOR	RD1/4PMF4R7J
⚠	R1436	METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R1437	METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R1448	METAL OXIDE RESISTOR	RS1LMF561J
⚠	R415	CARBON FILM RESISTOR	RD1/4MUF331J
⚠	R416	CARBON FILM RESISTOR	RD1/4MUF331J
⚠	R419	CARBON FILM RESISTOR	RD1/4MUF820J
⚠	R420	CARBON FILM RESISTOR	RD1/4MUF820J
⚠	R423	RESISTOR (0.22Ω/5W)	ACN7094
⚠	R424	RESISTOR (0.22Ω/5W)	ACN7094
⚠	R465	CARBON FILM RESISTOR	RD1/4MUF331J
⚠	R466	CARBON FILM RESISTOR	RD1/4MUF331J
⚠	R469	CARBON FILM RESISTOR	RD1/4MUF820J
⚠	R470	CARBON FILM RESISTOR	RD1/4MUF820J
⚠	R473	RESISTOR (0.22Ω/5W)	ACN7094
⚠	R474	RESISTOR (0.22Ω/5W)	ACN7094

Mark	No.	Description	Parts No.
⚠	R703	CARBON FILM RESISTOR	RD1/2PM270J
⚠	R704	RESISTOR(2.2MΩ/ 1/2W)	RCN1080
	Other Resistors		RD1/4PU□□□J

OTHERS

	1	HEAT SINK B	ANH1021
	2	HEAT SINK B	ANH1021
	401	PCB BINDER	VEF1040
	402	13P CABLE HOLDER	51048-1300
	403	PCB BINDER	VEF1040
	404	6P CABLE HOLDER	51048-0600
	405	CABLE HOLDER(10P)	51052-1000
	407	CABLE HOLDER(10P)	51052-1000
	408	12P CABLE HOLDER	51048-1200
	409	5P CABLE HOLDER	51048-0500
	411	PCB BINDER	VEF1040
	412	PCB BINDER	VEF1040
⚠	701	AC SOCKET 1-P	AKP1060
	CN401	21P CONNECTOR	52045-2145
	CN701	AC CORD SOCKET	RKP1751
	H701	FUSE CLIP	AKR1004
	H702	FUSE CLIP	AKR1004
	H703	FUSE CLIP	AKR1004
	H704	FUSE CLIP	AKR1004
	J10	JUMPER WIRE	D20PYY1415E
	J14	JUMPER WIRE	D20PYY0520E
	J18	BOARD IN WIRE	DB020ND0
	J19	BOARD IN WIRE	DB925ND0
	JA413	PIN JACK(1P)	AKB7111
	KN704	EARTH METAL FITTING	VNF1084
⚠	T701	POWER TRANSFORMER	ATT1223

E F.SP.CONNECT ASSY

OTHERS

	686	13P CABLE HOLDER	51048-1300

F R.C.SP.CONNECT ASSY

OTHERS

	691	12P CABLE HOLDER	51048-1200

G FRONT SP. ASSY

SEMICONDUCTORS

	Q626	TRANSISTOR	KRA103M
	Q627	TRANSISTOR	KRA103M
	Q628	TRANSISTOR	KRA103M
	Q629	TRANSISTOR	KRC101M
	Q630	TRANSISTOR	KRC101M
	Q631	TRANSISTOR	KRC101M
	D626	DIODE	1SS133
	D627	DIODE	1SS133
	D628	DIODE	1SS133

COILS

	L627	COIL	ATH1004
	L628	COIL	ATH1004

Mark	No.	Description	Parts No.
RELAYS			
⚠	RY626	RELAY	ASR7001
⚠	RY627	RELAY	ASR7001
⚠	RY628	RELAY	ASR7001
CAPACITORS			
	C627	AUDIO FILM CAPACITOR	CFTYA104J50
	C628	AUDIO FILM CAPACITOR	CFTYA104J50
RESISTORS			
⚠	R626	METAL OXIDE RESISTOR	RS1LMF561J
⚠	R627	METAL OXIDE RESISTOR	RS1LMF561J
⚠	R628	METAL OXIDE RESISTOR	RS1LMF561J
⚠	R629	CARBON FILM RESISTOR	RD1/4PMF4R7J
⚠	R630	CARBON FILM RESISTOR	RD1/4PMF4R7J
⚠	R631	METAL OXIDE RESISTOR	RS1LMF4R7J
⚠	R632	METAL OXIDE RESISTOR	RS1LMF4R7J
	Other Resistors		RD1/4PM□□□J
OTHERS			
	CN626	PLUG(13P)	AKM7006
	CN627	SPEAKER TERMINAL 8-P	AKE7006

H REAR SP ASSY

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	Q651	TRANSISTOR	KRA101M
	Q652	TRANSISTOR	2SC1740S
	D651	DIODE	1SS355
	D652	DIODE	1SS355
COIL			
	L651	COIL	ATH1004
RELAYS			
⚠	RY651	RELAY	ASR7001
⚠	RY652	RELAY	ASR7001
CAPACITORS			
	C651	AUDIO FILM CAPACITOR	CFTYA104J50
RESISTORS			
⚠	R651	METAL OXIDE RESISTOR	RS2LMF271J
⚠	R652	CARBON FILM RESISTOR	RD1/4LMF4R7J
⚠	R657	METAL OXIDE RESISTOR	RS1LMF4R7J
	Other Resistors		RS1/10S□□□J
OTHERS			
	CN651	PLUG(12P)	AKM7007
	CN652	SPEAKER TERMINAL 6-P	AKE7041
	JA653	PIN JACK(1P)	AKB7111

I HEADPHONE ASSY

Mark	No.	Description	Parts No.
RESISTORS			
⚠	R1461	METAL OXIDE RESISTOR	RS3LMF331J
⚠	R1462	METAL OXIDE RESISTOR	RS3LMF331J
OTHERS			
	JA1461	HEADPHONE JACK	RKB1014

J TRANS 2 ASSY

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
⚠	IC351	IC PROTECTOR	ICP-N70
⚠	IC352	IC PROTECTOR	ICP-N70
⚠	IC353	IC PROTECTOR	ICP-N70
⚠	IC354	IC PROTECTOR	ICP-N70
	D351	DIODE	S5688G
	D352	DIODE	S5688G
	D354	DIODE	S5688G
	D355	DIODE	S5688G
	D356	ZENER DIODE	MTZJ20A
	D357	ZENER DIODE	MTZJ9.1B
CAPACITORS			
	C355	ELECT. CAPACITOR	CEAT470M50
	C356	ELECT. CAPACITOR	CEAT470M25
	C357	ELECT. CAPACITOR	CEAT470M50
	C358	ELECT. CAPACITOR	CEAT101M35
	C359	ELECT. CAPACITOR	CEAT101M10
RESISTORS			
⚠	R358	METAL OXIDE RESISTOR	RS1LMF182J
	Other Resistors		RD1/4PU□□□J
OTHERS			
	351	CABLE HOLDER(6P)	51052-0600
	352	5P CABLE HOLDER	51048-0500
	353	6P CABLE HOLDER	51048-0600
	356	CABLE HOLDER(4P)	51052-0400
	357	PCB BINDER	VEF1040
	358	PCB BINDER	VEF1040
	CN354	4P PLUG	KM200TA4
	CN355	4P PLUG	KM200TA4
	J9	JUMPER WIRE	D20PYY0545E

K TRANS 1 ASSY

Mark	No.	Description	Parts No.
OTHERS			
	J51	LEAD WIRE UNIT	DB035NB0
	J52	LEAD WIRE UNIT	DB135NB0

L BARRIER ASSY

Mark	No.	Description	Parts No.
OTHERS			
	CN681	4P SOCKET	KP200TA4L
	CN682	4P SOCKET	KP200TA4L

M FET ASSY

Mark	No.	Description	Parts No.
SEMICONDUCTORS			
⚠	Q1451	POWER MOS FET	IRF9540A
⚠	Q1452	POWER MOS FET	IRF540A
RESISTORS			
⚠	R1451	CARBON FILM RESISTOR	RD1/4PMF101J
⚠	R1452	CARBON FILM RESISTOR	RD1/4PMF101J
	Other Resistors		RD1/4PM□□□J
OTHERS			
	1451	CABLE HOLDER(10P)	51052-1000

Mark	No.	Description	Parts No.

N VIDEO ASSY

SEMICONDUCTORS

	IC501	VIDEO SW IC	NJM2296D
	IC502	OP-AMP IC	NJM4558D-D
	IC503	OP-AMP IC	NJM4558D-D
	Q501	TRANSISTOR	2SC3377
	Q502	TRANSISTOR	2SA1515
	Q505	TRANSISTOR	2SA933S
	Q506	TRANSISTOR	KRC103M
	D501	ZENER DIODE	MTZJ6.2B
	D502	ZENER DIODE	MTZJ6.2B
	D503	DIODE	1SS133
	D505	DIODE	1SS133
	D506	DIODE	1SS133
	D507	DIODE	1SS133
	D508	DIODE	1SS133
	D509	DIODE	1SS133
	D510	DIODE	1SS133

CAPACITORS

	C502	ELECT. CAPACITOR	CEAT470M25
	C503	ELECT. CAPACITOR	CEAT470M25
	C504	ELECT. CAPACITOR	CEAT470M25
	C505	CERAMIC CAPACITOR	CCCSL221J50
	C506	CERAMIC CAPACITOR	CCCSL221J50
	C509	CERAMIC CAPACITOR	CGCYX473M25
	C510	CERAMIC CAPACITOR	CGCYX473M25
	C511	ELECT. CAPACITOR	CEAT470M25
	C512	ELECT. CAPACITOR	CEAT470M25
	C513	CERAMIC CAPACITOR	CKCYF103Z50
	C514	CERAMIC CAPACITOR	CKCYF103Z50
	C517	ELECT. CAPACITOR	CEAT4R7M50
	C518	ELECT. CAPACITOR	CEAT4R7M50
	C521	ELECT. CAPACITOR	CEAT4R7M50
	C522	ELECT. CAPACITOR	CEAT4R7M50
	C523	CERAMIC CAPACITOR	CKCYF103Z50
	C524	CERAMIC CAPACITOR	CKCYF103Z50
	C525	CERAMIC CAPACITOR	CKCYF103Z50
	C526	CERAMIC CAPACITOR	CKCYF103Z50
	C531	CERAMIC CAPACITOR	CKCYF103Z50
	C532	CERAMIC CAPACITOR	CKCYF103Z50
	C533	CERAMIC CAPACITOR	CKCYF103Z50
	C535	ELECT. CAPACITOR	CEAT470M25

RESISTORS

⚠	R510	METAL OXIDE RESISTOR	RS1LMF151J
⚠	R511	METAL OXIDE RESISTOR	RS1LMF151J
	Other Resistors		RD1/4PU□□□J

OTHERS

	502	2P RCA PIN JACK	AKB7017
	CN504	PIN JACK (4P)	AKB7112
	CN507	CONNECTOR	52045-1745
	JA501	3P RCA PIN JACK	AKB7056
	JA505	JACK	RKN1004
	JA506	JACK	RKN1004

Mark	No.	Description	Parts No.

O FRONT VIDEO ASSY

CAPACITORS

	C605	CERAMIC CAPACITOR	CGCYX104M25
	C606	CERAMIC CAPACITOR	CGCYX104M25
	C608	ELECT. CAPACITOR	CEAT470M25
	C609	CERAMIC CAPACITOR	CKCYB471K50
	C610	CERAMIC CAPACITOR	CKCYB471K50
	C611	CERAMIC CAPACITOR	CKCYF103Z50
	C612	CERAMIC CAPACITOR	CKCYF103Z50

RESISTORS

	All Resistors		RD1/4PU□□□J

OTHERS

	601	PCB BINDER	VEF1040
	CN601	PIN JACK(3P)	AKB7085
	CN602	CONNECTOR POST	B5B-PH-K-S

P DOLBY DIGITAL ASSY

SEMICONDUCTORS

	IC9101	LOGIC IC	TC74HCU04AF
	IC9151	LOGIC IC	TC74HC151AF
	IC9201	OP-AMP IC	NJM2100M
	IC9301	IC	TC74LVX244FT
	IC9311	OCTAL BUS BUFFER IC	TC74VHCT244AFT
	IC9321	DOLBY DIGITAL IC	MB86342B
	IC9322	SRAM(256K)	CY62256VLL-70SNC
⚠	IC9391	REGULATOR IC	PQ20WZ51
	IC9401	MULTI CH CODEC IC	CS4226-KQ
	IC9601	E-SW IC	TC9164AF
	IC9602	IC	NJM4558MD
	IC9603	IC	NJM4558MD
	IC9604	IC	NJM4558MD
	IC9701	IC	NJM4558MD
	IC9702	IC	NJM4558MD
	IC9703	IC	NJM4558MD
	IC9704	IC	NJM4558MD
	IC9705	IC	NJM4558MD
	Q9201	CHIP MUTING TR	2SC3326
	Q9202	CHIP MUTING TR	2SC3326
	Q9203	CHIP DIGITAL TRANS.	DTA124EK
	Q9204	DIGITAL TRANSISTOR	DTC124EK
	Q9321	DIGITAL TRANSISTOR	DTC124EK
	Q9322	DIGITAL TRANSISTOR	DTC124EK
	Q9324	DIGITAL TRANSISTOR	DTC124EK
	Q9325	CHIP DIGITAL TRANS.	DTA124EK
	Q9401	DIGITAL TRANSISTOR	DTC124EK
	Q9402	CHIP DIGITAL TRANS.	DTA124EK
	Q9601	CHIP MUTING TR	2SC3326
	Q9602	CHIP MUTING TR	2SC3326
	Q9603	CHIP MUTING TR	2SC3326
	Q9604	CHIP MUTING TR	2SC3326
	Q9605	CHIP MUTING TR	2SC3326
	Q9606	CHIP MUTING TR	2SC3326
	Q9607	CHIP DIGITAL TRANS.	DTA124EK
	Q9608	DIGITAL TRANSISTOR	DTC124EK
	Q9609	CHIP DIGITAL TRANS.	DTA124EK
	Q9610	CHIP DIGITAL TRANS.	DTA124EK
	Q9611	DIGITAL TRANSISTOR	DTC124EK
	Q9612	DIGITAL TRANSISTOR	DTC124EK

Mark	No.	Description	Parts No.
	Q9613	CHIP DIGITAL TRANS.	DTA124EK
	Q9614	CHIP DIGITAL TRANS.	DTA124EK
	Q9615	CHIP MUTING TR	2SC3326
	Q9616	CHIP MUTING TR	2SC3326
	D9601	DIODE	1SS181
	D9602	DIODE	1SS181

COILS

	L9101	CHIP SOLID INDUCTOR	QTL1013
	L9102	CHIP SOLID INDUCTOR	QTL1013
	L9151	CHIP SOLID INDUCTOR	QTL1013
	L9301	CHIP SOLID INDUCTOR	QTL1013
	L9311	CHIP SOLID INDUCTOR	QTL1013
	L9321	CHIP SOLID INDUCTOR	ATL7002
	L9323	CHIP SOLID INDUCTOR	QTL1013
	L9391	CHIP SOLID INDUCTOR	ATL7002
	L9402	CHIP SOLID INDUCTOR	QTL1013
	L9403	CHIP SOLID INDUCTOR	QTL1013
	L9801	CHIP SOLID INDUCTOR	QTL1013
	L9802	CHIP SOLID INDUCTOR	QTL1013
	L9803	CHIP SOLID INDUCTOR	QTL1013
	L9804	CHIP SOLID INDUCTOR	QTL1013
	L9805	CHIP SOLID INDUCTOR	QTL1013
	L9807	CHIP SOLID INDUCTOR	ATL7002
	L9809	CHIP SOLID INDUCTOR	ATL7002

CAPACITORS

	C9101	CHIP CERAMIC C.	CKSRYB103K50
	C9102	CERAMIC CAPACITOR	CKSRYF104Z16
	C9104	CERAMIC CAPACITOR	CCSRCH560J50
	C9105	ELECT. CAPACITOR	CEJA101M10
	C9107	CHIP CERAMIC C.	CKSRYB103K50
	C9108	CHIP CERAMIC C.	CCSRCH271J50
	C9109	ELECT. CAPACITOR	CEJA101M10
	C9115	CERAMIC CAPACITOR	CKSRYF104Z16
	C9116	CERAMIC CAPACITOR	CKSRYF104Z16
	C9151	ELECT. CAPACITOR	CEJA101M10
	C9153	CHIP CERAMIC C.	CKSRYB103K50
	C9154	CHIP CERAMIC C.	CCSRCH271J50
	C9158	CERAMIC CAPACITOR	CKSRYB104K16
	C9159	CERAMIC CAPACITOR	CCSRCH101J50
	C9201	CERAMIC CAPACITOR	CCSRCH101J50
	C9202	CERAMIC CAPACITOR	CCSRCH101J50
	C9203	ELECT. CAPACITOR	CEJA4R7M50
	C9204	ELECT. CAPACITOR	CEJA4R7M50
	C9205	ELECT. CAPACITOR	CEJANP100M10
	C9206	ELECT. CAPACITOR	CEJANP100M10
	C9207	ELECT. CAPACITOR	CEJA221M6R3
	C9208	CERAMIC CAPACITOR	CKSRYF104Z16
	C9209	CERAMIC CAPACITOR	CKSRYF104Z16
	C9301	ELECT. CAPACITOR	CEJA101M10
	C9302	CHIP CERAMIC C.	CKSRYB103K50
	C9303	CHIP CERAMIC C.	CCSRCH271J50
	C9307	CHIP CERAMIC C.	CCSRCH471J50
	C9308	CHIP CERAMIC C.	CCSRCH471J50
	C9309	CHIP CERAMIC C.	CCSRCH471J50
	C9310	CHIP CERAMIC C.	CCSRCH471J50
	C9311	ELECT. CAPACITOR	CEJA101M10
	C9312	CHIP CERAMIC C.	CKSRYB103K50
	C9313	CHIP CERAMIC C.	CCSRCH271J50
	C9315	CHIP CERAMIC C.	CCSRCH471J50
	C9316	CHIP CERAMIC C.	CCSRCH471J50
	C9321	ELECT. CAPACITOR	CEJA221M6R3
	C9323	CHIP CERAMIC C.	CCSRCH221J50
	C9324	CERAMIC CAPACITOR	CCSRCH101J50
	C9325	CERAMIC CAPACITOR	CKSRYF104Z16
	C9326	CHIP CERAMIC C.	CCSRCH120J50
	C9327	CHIP CERAMIC C.	CCSRCH120J50
	C9329	CERAMIC CAPACITOR	CCSRCH101J50
	C9330	CERAMIC CAPACITOR	CKSRYF104Z16
	C9331	CERAMIC CAPACITOR	CCSRCH101J50
	C9332	CERAMIC CAPACITOR	CKSRYF104Z16
	C9334	CERAMIC CAPACITOR	CCSRCH101J50
	C9335	CERAMIC CAPACITOR	CKSRYF104Z16
	C9336	CERAMIC CAPACITOR	CCSRCH101J50
	C9337	CERAMIC CAPACITOR	CKSRYF104Z16
	C9338	CERAMIC CAPACITOR	CCSRCH101J50
	C9339	CERAMIC CAPACITOR	CKSRYF104Z16
	C9340	ELECT. CAPACITOR	CEJA101M10
	C9341	CERAMIC CAPACITOR	CKSRYF104Z16
	C9342	CERAMIC CAPACITOR	CCSRCH101J50
	C9368	CHIP CERAMIC C.	CCSRCH471J50
	C9369	CHIP CERAMIC C.	CCSRCH221J50
	C9370	CHIP CERAMIC C.	CCSRCH221J50
	C9377	CHIP CERAMIC C.	CCSRCH151J50
	C9391	ELECT. CAPACITOR	CEJA4R7M50
	C9393	ELECT. CAPACITOR	CEJA101M10
	C9401	ELECT. CAPACITOR	CEJA101M10
	C9402	ELECT. CAPACITOR	CEJA101M10
	C9404	CERAMIC CAPACITOR	CKSRYF104Z16
	C9405	CHIP CERAMIC C.	CCSRCH471J50
	C9406	CHIP CERAMIC C.	CKSRYB223K50
	C9407	CERAMIC CAPACITOR	CKSQYB224K16
	C9408	CERAMIC CAPACITOR	CCSRCH180J50
	C9409	CERAMIC CAPACITOR	CCSRCH180J50
	C9410	ELECT. CAPACITOR	CEJA1R0M50
	C9413	CHIP CERAMIC C.	CCSRCH271J50
	C9414	CHIP CERAMIC C.	CCSRCH471J50
	C9415	ELECT. CAPACITOR	CEJA101M10
	C9418	CERAMIC CAPACITOR	CCSRCH390J50
	C9419	CERAMIC CAPACITOR	CCSRCH390J50
	C9420	CERAMIC CAPACITOR	CCSRCH102J50
	C9421	CERAMIC CAPACITOR	CKSRYF104Z16
	C9422	CHIP CERAMIC C.	CCSRCH471J50
	C9423	CHIP CERAMIC C.	CCSRCH471J50
	C9424	CHIP CERAMIC C.	CCSRCH471J50
	C9425	CHIP CERAMIC C.	CCSRCH471J50
	C9426	CHIP CERAMIC C.	CCSRCH471J50
	C9427	CERAMIC CAPACITOR	CKSRYF104Z16
	C9428	CHIP CERAMIC C.	CCSRCH331J50
	C9429	CHIP CERAMIC C.	CCSRCH331J50
	C9431	CHIP CERAMIC C.	CCSRCH471J50
	C9432	CERAMIC CAPACITOR	CKSRYF104Z16
	C9433	ELECT. CAPACITOR	CEJAR47M50
	C9601	CHIP CERAMIC C.	CCSRCH471J50
	C9602	CHIP CERAMIC C.	CCSRCH471J50
	C9603	ELECT. CAPACITOR	CEJA4R7M50
	C9604	ELECT. CAPACITOR	CEJA4R7M50
	C9605	CHIP CERAMIC C.	CCSRCH471J50
	C9606	CHIP CERAMIC C.	CCSRCH471J50
	C9607	CERAMIC CAPACITOR	CKSRYF104Z16
	C9608	CERAMIC CAPACITOR	CKSRYF104Z16

Mark	No.	Description	Parts No.
	C9609	CHIP CERAMIC C.	CCSRCH221J50
	C9610	CHIP CERAMIC C.	CCSRCH221J50
	C9613	CHIP CERAMIC C.	CCSRCH471J50
	C9614	CHIP CERAMIC C.	CCSRCH471J50
	C9615	ELECT. CAPACITOR	CEJA4R7M50
	C9616	ELECT. CAPACITOR	CEJA4R7M50
	C9617	CHIP CERAMIC C.	CCSRCH471J50
	C9618	CHIP CERAMIC C.	CCSRCH471J50
	C9619	CERAMIC CAPACITOR	CKSRYF104Z16
	C9620	CERAMIC CAPACITOR	CKSRYF104Z16
	C9621	CHIP CERAMIC C.	CCSRCH221J50
	C9622	CHIP CERAMIC C.	CCSRCH221J50
	C9625	CHIP CERAMIC C.	CCSRCH471J50
	C9626	CHIP CERAMIC C.	CKSRYB103K50
	C9627	ELECT. CAPACITOR	CEJA4R7M50
	C9628	ELECT. CAPACITOR	CEJA4R7M50
	C9629	CHIP CERAMIC C.	CCSRCH271J50
	C9631	CERAMIC CAPACITOR	CKSRYF104Z16
	C9632	CERAMIC CAPACITOR	CKSRYF104Z16
	C9633	CHIP CERAMIC C.	CKSRYB122K50
	C9636	CHIP CERAMIC C.	CKSRYB103K50
	C9637	CHIP CERAMIC C.	CKSRYB103K50
	C9639	CHIP CERAMIC C.	CCSRCH471J50
	C9642	CHIP CERAMIC C.	CKSRYB103K50
	C9701	CERAMIC CAPACITOR	CKSRYB682K50
	C9702	CERAMIC CAPACITOR	CKSRYB682K50
	C9703	CHIP CERAMIC C.	CKSRYB222K50
	C9704	CHIP CERAMIC C.	CKSRYB222K50
	C9705	CERAMIC CAPACITOR	CKSRYB104K16
	C9706	CERAMIC CAPACITOR	CKSRYB104K16
	C9707	CHIP CERAMIC C.	CCSRCH151J50
	C9708	CHIP CERAMIC C.	CCSRCH151J50
	C9709	CERAMIC CAPACITOR	CKSRYF104Z16
	C9710	CERAMIC CAPACITOR	CKSRYF104Z16
	C9711	CERAMIC CAPACITOR	CKSRYF104Z16
	C9712	CERAMIC CAPACITOR	CKSRYF104Z16
	C9713	ELECT. CAPACITOR	CEJA220M25
	C9714	ELECT. CAPACITOR	CEJA220M25
	C9715	CERAMIC CAPACITOR	CKSRYB682K50
	C9716	CERAMIC CAPACITOR	CKSRYB682K50
	C9717	CHIP CERAMIC C.	CKSRYB222K50
	C9718	CHIP CERAMIC C.	CKSRYB222K50
	C9719	CERAMIC CAPACITOR	CKSRYB104K16
	C9720	CERAMIC CAPACITOR	CKSRYB104K16
	C9721	CHIP CERAMIC C.	CCSRCH151J50
	C9722	CHIP CERAMIC C.	CCSRCH151J50
	C9723	CERAMIC CAPACITOR	CKSRYF104Z16
	C9724	CERAMIC CAPACITOR	CKSRYF104Z16
	C9725	CERAMIC CAPACITOR	CKSRYF104Z16
	C9726	CERAMIC CAPACITOR	CKSRYF104Z16
	C9727	ELECT. CAPACITOR	CEJA220M25
	C9728	ELECT. CAPACITOR	CEJA220M25
	C9729	CERAMIC CAPACITOR	CKSRYB682K50
	C9731	CHIP CERAMIC C.	CKSRYB222K50
	C9732	CERAMIC CAPACITOR	CKSRYB682K50
	C9733	CERAMIC CAPACITOR	CKSRYB104K16
	C9734	CERAMIC CAPACITOR	CKSRYB104K16
	C9735	CHIP CERAMIC C.	CCSRCH151J50
	C9736	CERAMIC CAPACITOR	CCSRCH102J50
	C9737	CERAMIC CAPACITOR	CKSRYF104Z16
	C9738	CERAMIC CAPACITOR	CKSRYF104Z16
	C9739	ELECT. CAPACITOR	CEJA220M25
	C9740	ELECT. CAPACITOR	CEJA220M25
	C9801	ELECT. CAPACITOR	CEJA101M10
	C9803	ELECT. CAPACITOR	CEJA220M25
	C9805	ELECT. CAPACITOR	CEJA220M25
	C9807	CERAMIC CAPACITOR	CKSRYF104Z16

RESISTORS

R9391	CHIP RESISTOR	RS1/16S5600F
R9393	CHIP RESISTOR	RS1/16S2001F
Other Resistors		RS1/16S□□□J

OTHERS

CN9371	15P CONNECTOR	52044-1545
CN9801	15P SOCKET	KP200TA15L
CN9802	7P SOCKET	KP200TA7L
JA9101	JACK	VKB1077
JA9103	OPTICAL RECEIVE MOD.	GP1F32R
JA9104	OPTICAL RECEIVE MOD.	GP1F32R
X9321	CRYSTAL RESONATOR (27.648MHz)	ASS7022
X9401	CRYSTAL RESONATOR (18.432MHz)	RSS1052

6. ADJUSTMENT

There is no information to be shown in this chapter.

7. GENERAL INFORMATION

7.1 PARTS

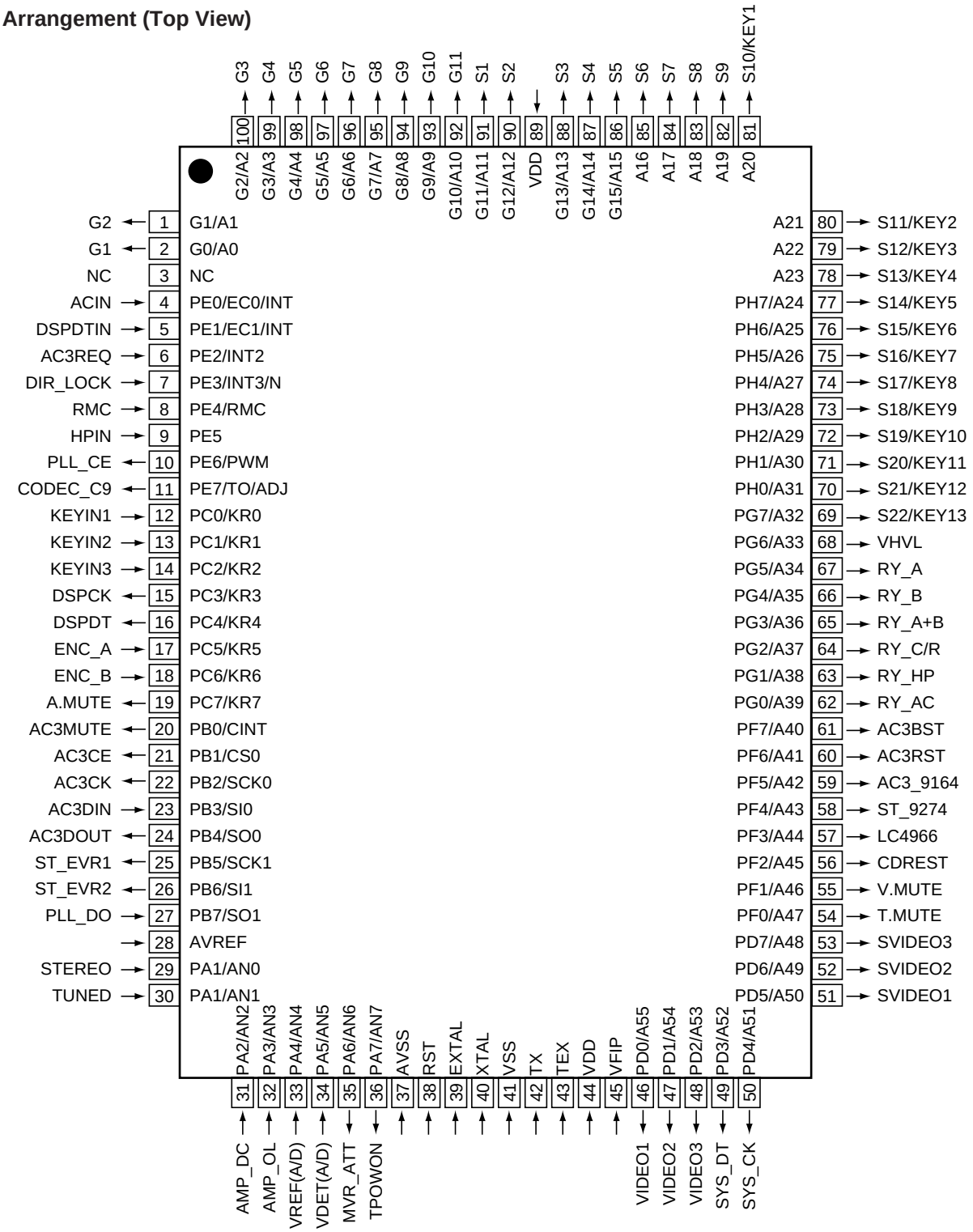
7.1.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG230A (FRONT ASSY : IC201)

• System Control Microcomputer

●Pin Arrangement (Top View)



●Pin Function

No.	Pin Name	I/O	Pin Function	Active
1	G2	O	Grid output 2	H
2	G1	O	Grid output 1	H
3	NC	–	Connect to VDD	
4	ACIN	I	AC pulse input	
5	DSPDTIN	I	Data input from CS4226-KQ	
6	AC3REQ	I	Data request from MUCAP	
7	DIRLOCK	I	Digital mode : DIR lock/unlock (L : Lock) Analog mode : DSP over-load detection (H : Detection)	
8	RMC	I	Remote control signal input (no-carrier signal)	
9	HPIN	I	Headphone connection detection (H : connect)	
10	PLL_CE	O	Chip select signal for communication with LC72131 (tuner)	H
11	CODEC_CS	O	CS4226-KQ chip select	L
12	KEYIN1	I	Key scan input 1	
13	KEYIN2	I	Key scan input 2	
14	KEYIN3	I	Key scan input 3	
15	DSPCK	O	Clock line for communication with CS4226-KQ and TC9164AF	H
16	DSPDT	O	Data line for communication with CS4226-KQ and TC9164AF	H
17	ENC_A	I	Rotary encoder signal input A	
18	ENC_B	I	Rotary encoder signal input B	
19	AMUTE	O	Audio mute	L
20	AC3MUTE	O	MUCAP mute	H
21	AC3CE	O	Chip select for communication with MUCAP	L
22	AC3CK	O	Clock line for communication with MUCAPMUCAP	H
23	AC3DIN	I	Data reception line from MUCAP	
24	AC3DOUT	O	Data line for communication with MUCAP	H
25	ST_EVR1	O	Strobe 1 for electric volume LC7535M	H
26	ST_EVR2	O	Strobe 2 for electric volume LC7535M	H
27	PLL_DA	O	Data output signal for communication with LC72131 (tuner)	H
28	AVref	–	Connect to VDD	
29	STEREO	I	Stereo/Monoral signal judgment signal	
30	TUNED	I	TUNED information	
31	AMP_DC	I	DC abnormality detection of protection circuit (L : Abnormality detection)	
32	AMP_OL	I	Over-load detection of protection circuit (L : Abnormality detection)	
33	VREF	I	Reference value (A/D) for detecting the AMP input signal level for VH/VL switch	
34	VDET	I	AMP input signal level detection (A/D) for VH/VL switch	
35	MVR_ATT	O	ATT control of master volume (L : Less than -20dB)	L
36	TPOWON	O	Tuner module ON/OFF	H
37	AVSS	–	Connect to VSS	
38	RST	–	Reset	
39	EXTAL	–	Connect to the oscillator (7.7MHz)	
40	XTAL	–		
41	VSS	–	Connect to VSS	
42	TX	–	Open	
43	TEX	–	Connect to VSS	
44	VDD	–	+5V	
45	VFDP	–	-30V	
46	VIDEO1	O	NJM2296D control	H
47	VIDEO2			
48	VIDEO3			
49	SYS_DT	O	Clock signal for communication with LC7535M and TC9274N-001	H
50	SYS_CK			

No.	Pin Name	I/O	Pin Function	Active
51	SVIDEO1	O	TC4051 control (S terminal control)	H
52	SVIDEO2			
53	SVIDEO3			
54	TMUTE	O	Tuner mute	H
55	VMUTE	O	Video mute	L
56	CDREST	O	CS4226-KQ reset	L
57	LC4966	O	Input switch the DVD 6ch (L: DVD 5.1ch)	H
58	ST_9174	O	Strobe signal for communication with TC9174	H
59	AC3_9164	O	Strobe signal for communication TC9164AF	H
60	AC3RST	O	Reset the MUCAP	L
61	AC3BST	O	During transfer the application data to MUCAP "H"	H
62	RY_AC	O	AC relay ON/OFF	H
63	RY_HP	O	Headphone relay ON/OFF	H
64	RY_C/R	O	Rear/Center relay ON/OFF	H
65	RY_A+B	O	Speaker A + B relay ON/OFF	H
66	RY_B	O	Speaker B relay ON/OFF	H
67	RY_A	O	Speaker A relay ON/OFF	H
68	VHVL	O	Power switch for AMP system (H : VH)	H
69	S22/KEY13	O	Segment output 22/key scan output 13	H
70	S21/KEY12		Segment output 21/key scan output 12	
71	S20/KEY11		Segment output 20/key scan output 11	
72	S19/KEY10		Segment output 19/key scan output 10	
73	S18/KEY9		Segment output 18/key scan output 9	
74	S17/KEY8		Segment output 17/key scan output 8	
75	S16/KEY7		Segment output 16/key scan output 7	
76	S15/KEY6		Segment output 15/key scan output 6	
77	S14/KEY5		Segment output 14/key scan output 5	
78	S13/KEY4		Segment output 13/key scan output 4	
79	S12/KEY3		Segment output 12/key scan output 3	
80	S11/KEY2		Segment output 11/key scan output 2	
81	S10/KEY1		Segment output 10/key scan output 1	
82	S9	O	Segment output 9	H
83	S8		Segment output 8	
84	S7		Segment output 7	
85	S6		Segment output 6	
86	S5		Segment output 5	
87	S4		Segment output 4	
88	S3		Segment output 3	
89	VDD	–	5V	
90	S2	O	Segment output 2	H
91	S1		Segment output 1	
92	G11		Grid output 11	
93	G10		Grid output 10	
94	G9		Grid output 9	
95	G8		Grid output 8	
96	G7		Grid output 7	
97	G6		Grid output 6	
98	G5		Grid output 5	
99	G4		Grid output 4	
100	G3		Grid output 3	

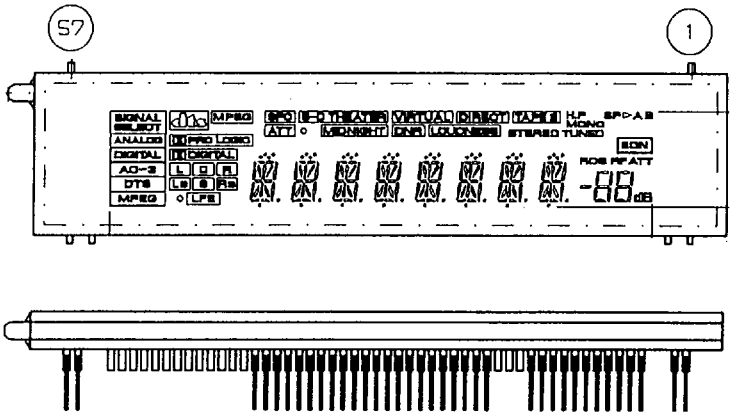
Note :• In the power off condition (with the remote control unit key or the main unit tact key), set to "L" excepting tuner mute (pin 54). However, it nothing is done against to the input port.
• When pin 10 and 11 detect "L" at the reset, be careful because it enter the microcomputer's own test mode.

7.1.2 DISPLAY

■ AAV7062 (FRONT ASSY : V201)

- **FL Indicator Tube**

- **Pin Assignment**



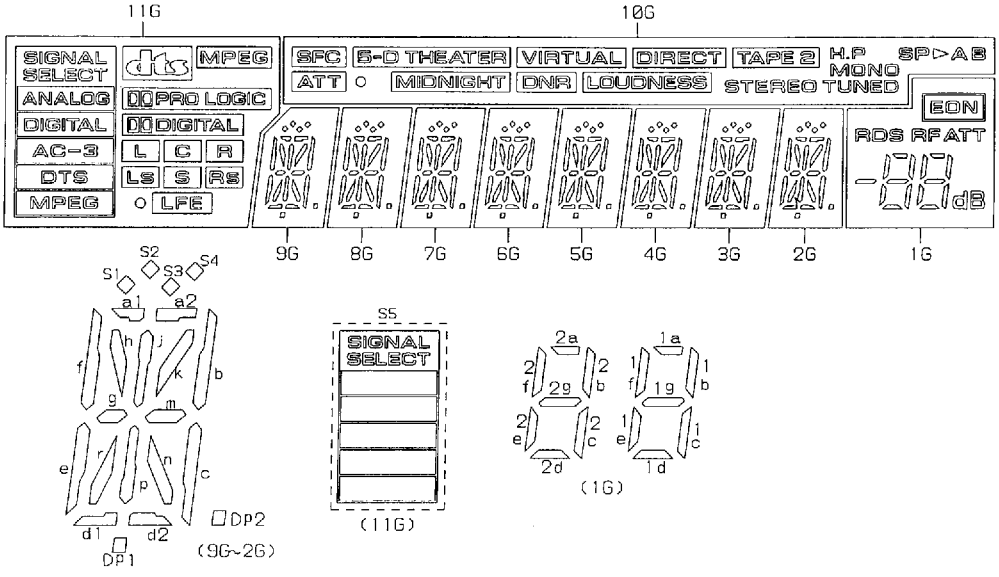
- **Pin Connection**

PIN NO.	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NP	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NX	NX	NX	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	F1	F1

PIN NO.	57	56	55	54	53	52	51
CONNECTION	F2	F2	NP	NP	NX	NX	NX

NOTE 1) F1,F2 --- Filament
2) NP ------ No pin
3) NX ------ No extend pin
4) DL ------ Datum Line
5) 1G~11G --- Grid

- **Grid Assignment**



- **Anode Connection**

	11G	10G	9G~2G	1G
P1	LFE	B	a1	dB
P2	○	A	a2	2a
P3	RS	SP ▷	h	2b
P4	S	H.P	j	2f
P5	LS	TUNED	k	2g
P6	R	MONO	b	2c
P7	C	STEREO	f	2e
P8	L	TAPE 2	m	2d
P9	DD DIGITAL	DIRECT	g	1a
P10	DD PRO LOGIC	LOUDNESS	c	1b
P11	MPEG	DNR	e	1f
P12	dts	VIRTUAL	r	1g
P13	MPEG	MIDNIGHT	p	1c
P14	DTS	5-D THEATER	n	1e
P15	AC-3	○	d1	1d
P16	DIGITAL	ATT	d2	▭
P17	ANALOG	SFC	DP2	RDS
P18	SS	-	DP1	RF ATT
P19	-	-	S1	EON
P20	-	-	S4	(EON)
P21	-	-	S2	-
P22	-	-	S3	-

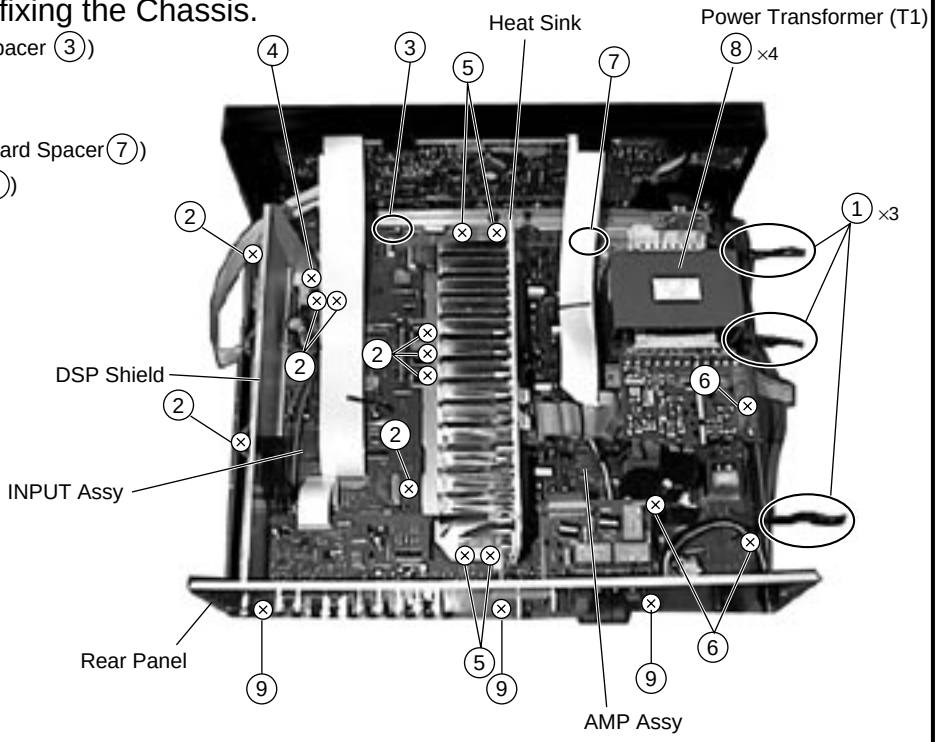
7.2 DISASSEMBLY

1 Remove the Bonnet. (seven screws)

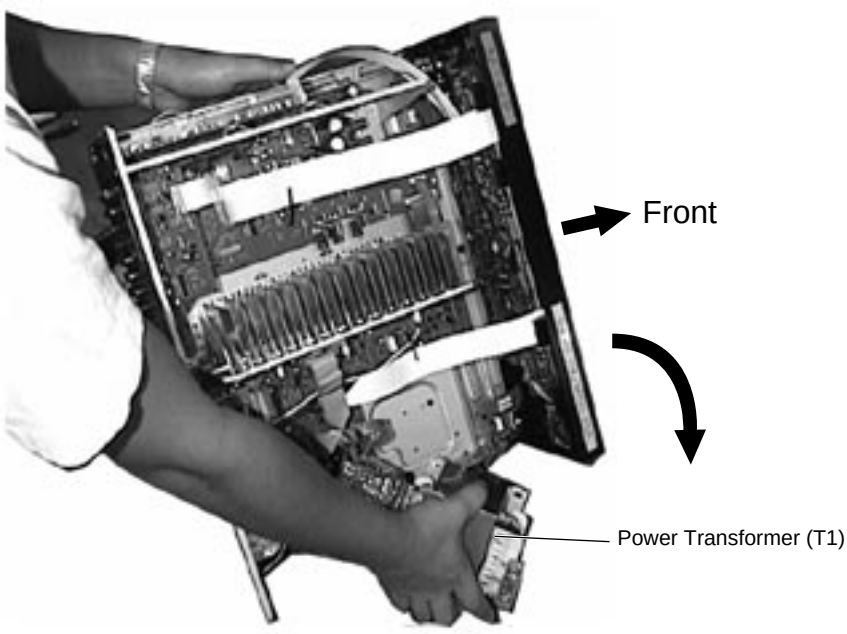
2 Release three binders (①) from the Power Transformer (T1).

3 Remove all screws which fixing the Chassis.

- INPUT Assy (eight screws ②, Card Spacer ③)
- DSP Shield (screw ④)
- Heat Sink (four screws ⑤)
- AMP Assy (three screws ⑥, Locking Card Spacer ⑦)
- Power Transformer (T1) (four screws ⑧)
- Rear Panel (three screws ⑨)

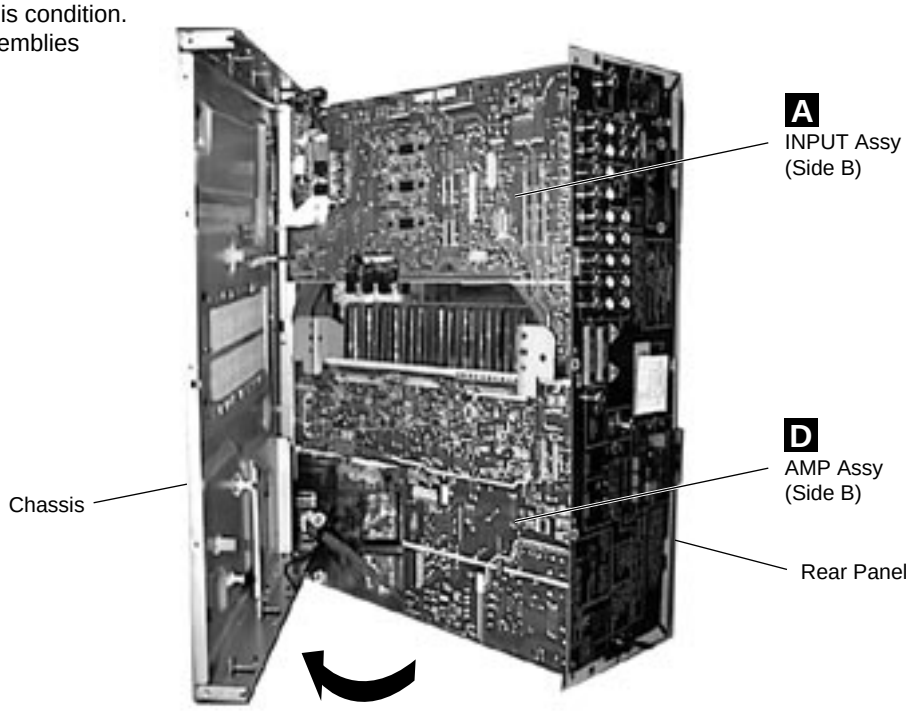


4 Put the Power Transformer on the bottom side, and stand the component sideways.

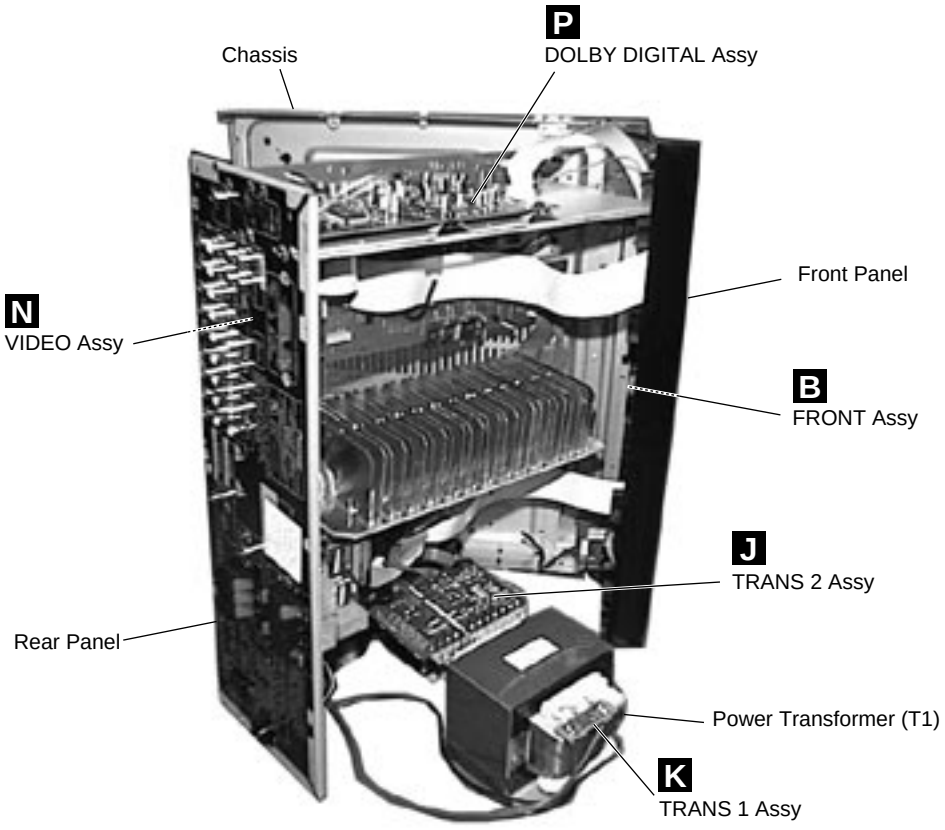


5 Open the Chassis and Rear Panel

It can be disgnosed under this condition.
Show the principal PCB Assemblies
in the illustration.

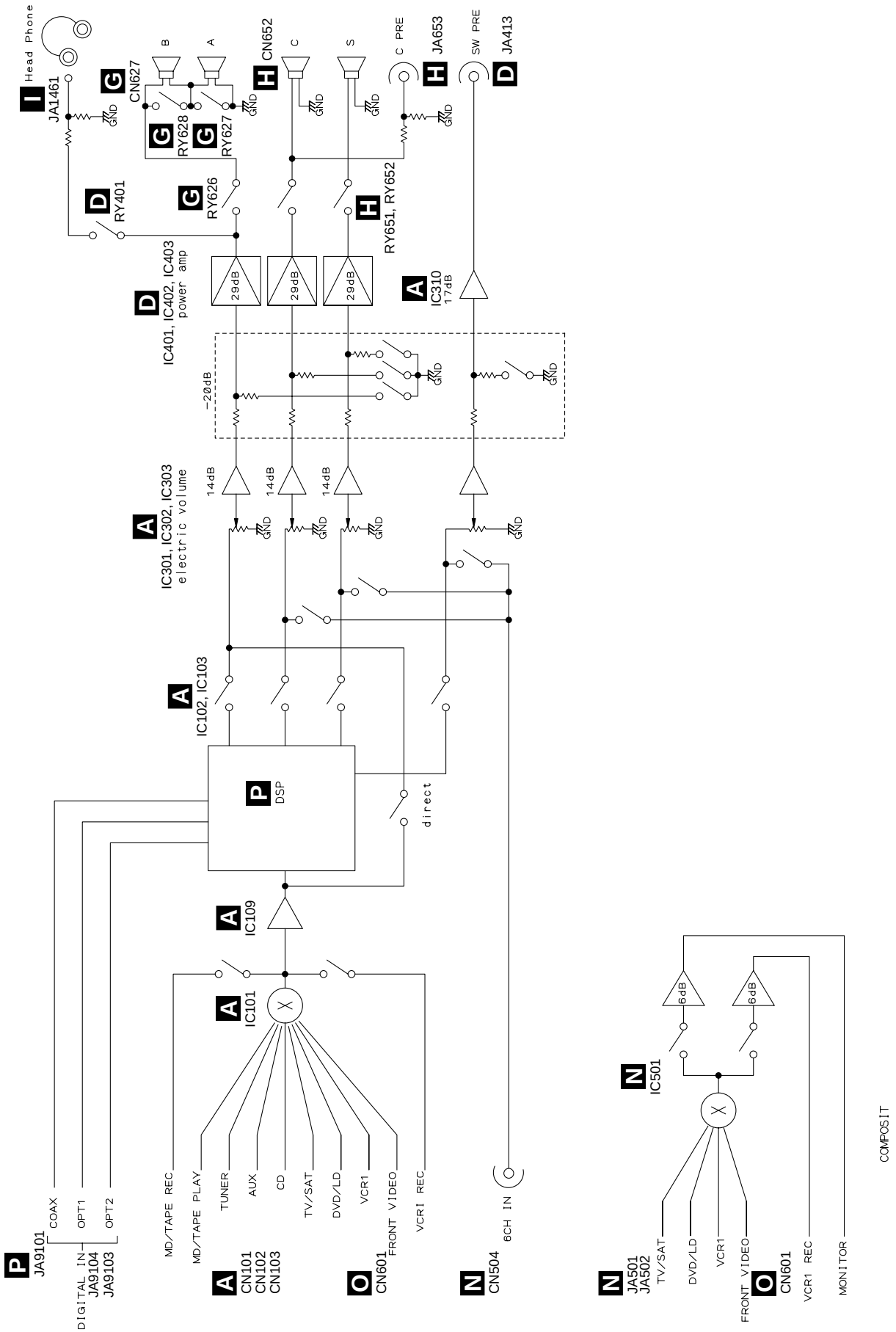


Rear View



Top View

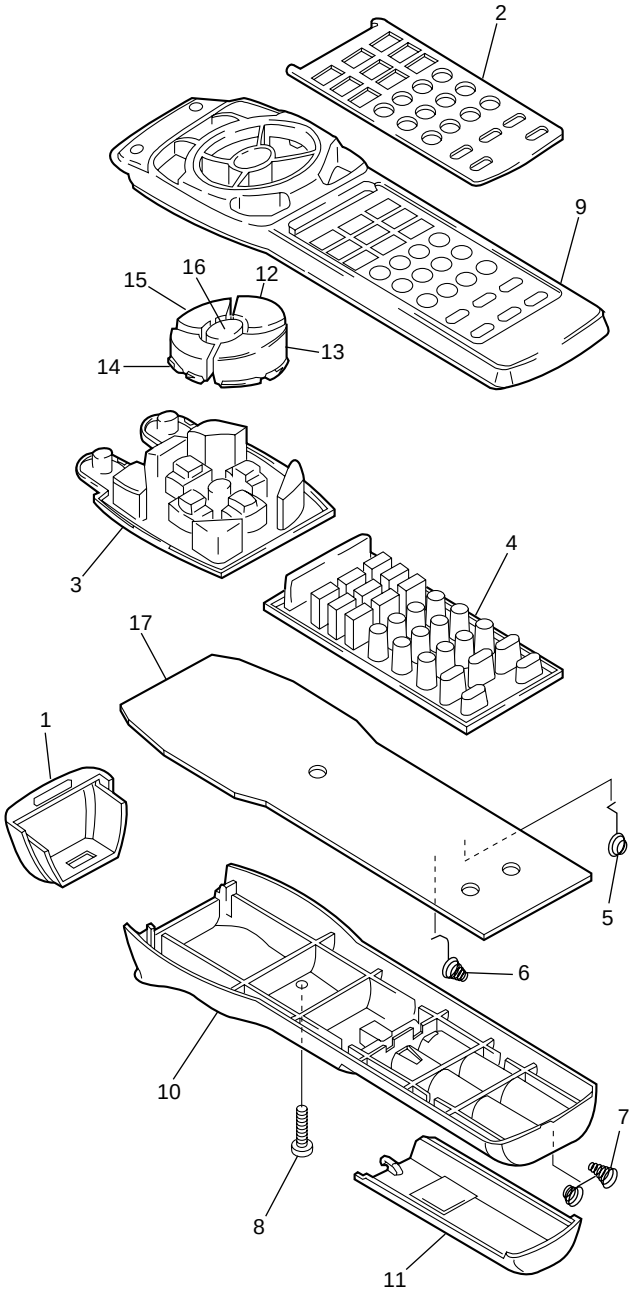
7.3 BLOCK DIAGRAM



7.4 REMOTE CONTROL UNIT [CU-VSX138 (AXD7178)]

7.4.1 Exploded Views and Parts List

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on the product are used for disassembly.*

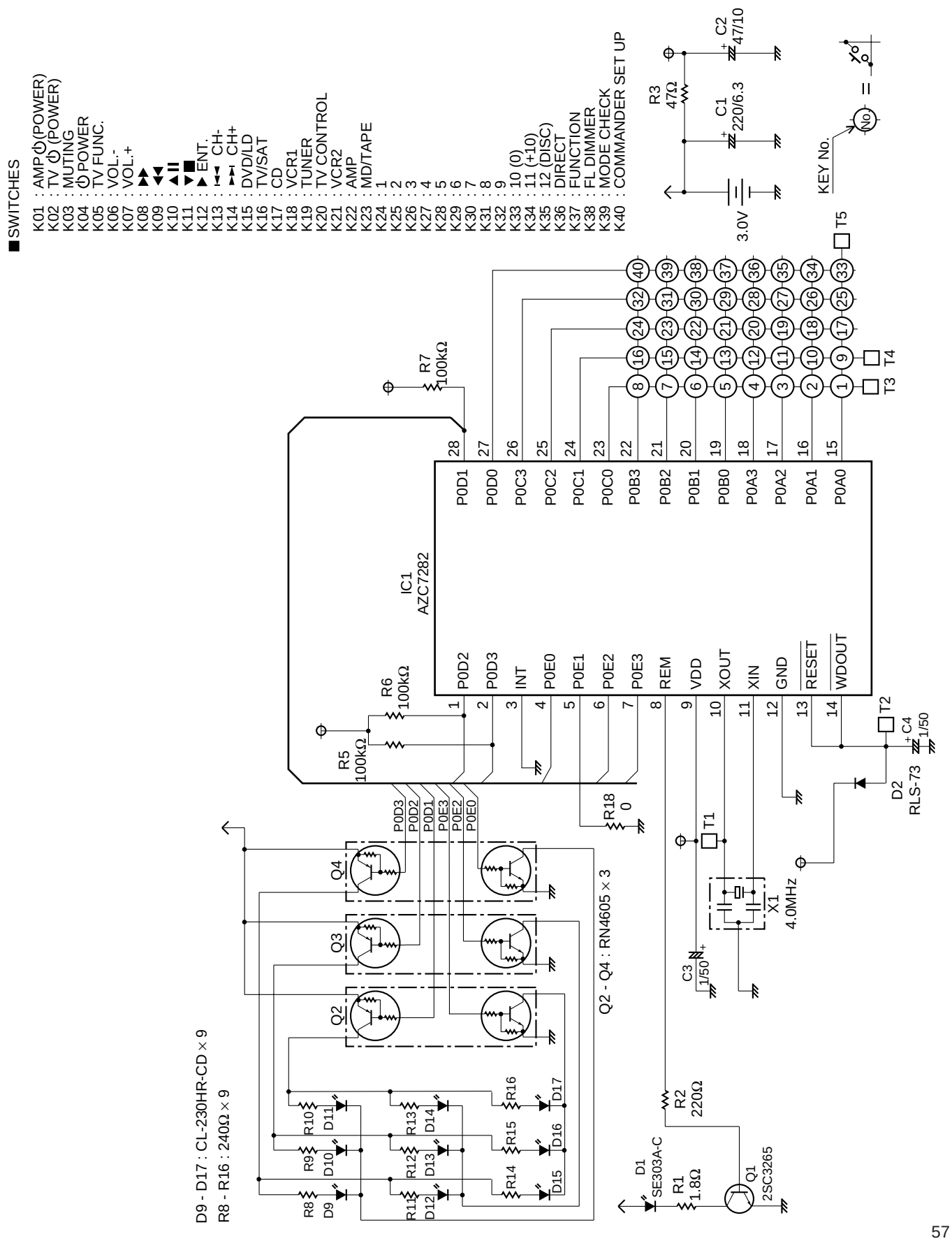


• Parts List

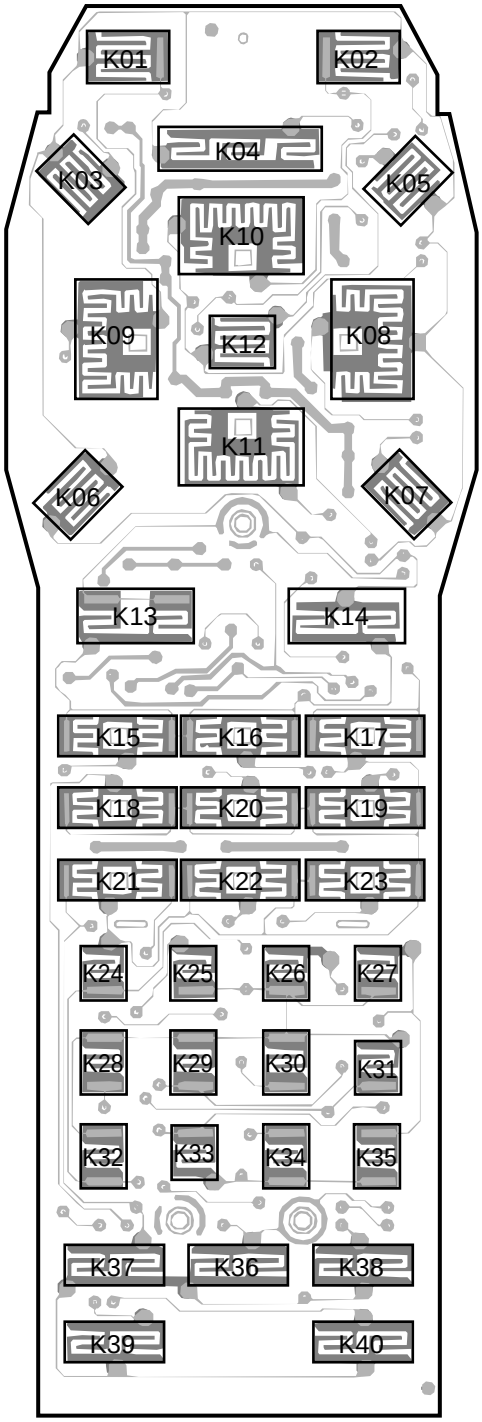
Mark	No.	Description	Part No.
	1	Filter	AZA7152
	2	Name Plate	AZA7304
	3	Rubber Sheet (A)	AZA7308
	4	Rubber Sheet (B)	AZA7307
	5	Spring (+)	AZB7049
	6	Spring (–)	AZB7050
	7	Spring	AZB7051
	8	Screw	AZB7052
	9	Remo-con Case (A)	AZN7738
	10	Remo-con Case (B)	AZN7326
	11	Battery Cover	AZN7327
	12	Main Key (FF)	AZN7666
	13	Main Key (STOP)	AZN7741
	14	Main Key (REV)	AZN7665
	15	Main Key (PAUSE)	AZN7742
	16	Main Key (PLAY)	AZN7664
NSP	17	PCB	AZW7248

7.4.2 Schematic Diagram

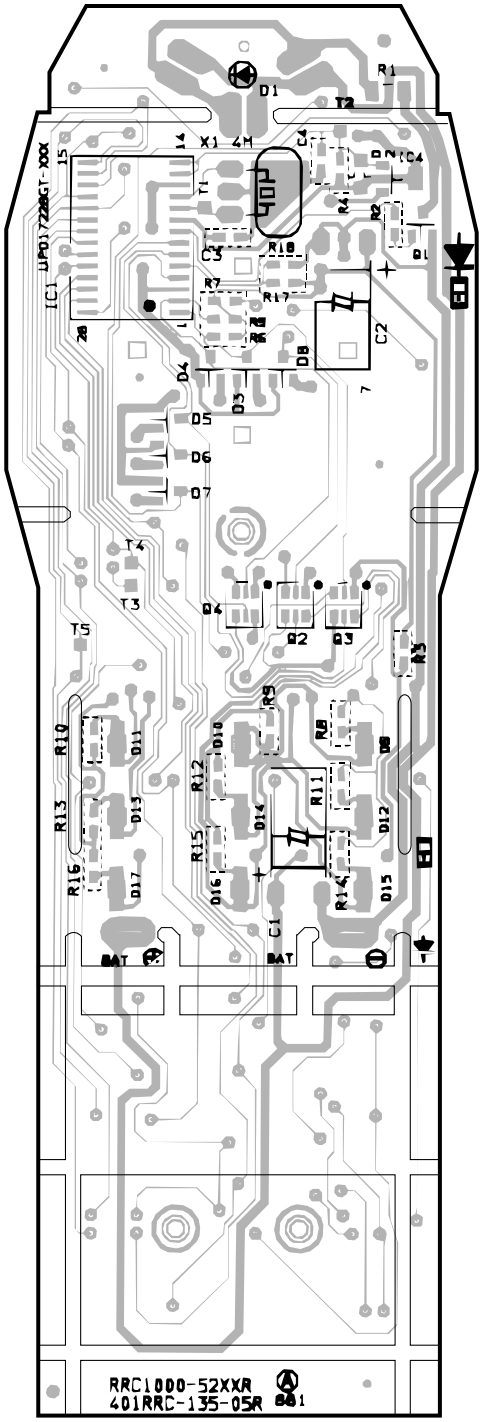
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



7.4.3 PCB Diagram



SIDE A



SIDE B

7.4.4 PCB Parts List

NOTES: ●*Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
●*The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
●*When ordering resistors, first convert resistance values into code form as shown in the following examples.*
Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	→	*56 × 10¹*	→	*561*	..... *RD1/4PU 5 6 1 J*
47k Ω	→	*47 × 10³*	→	*473*	..... *RD1/4PU 4 7 3 J*
0.5 Ω	→	*R50*			..... *RN2H R 5 0 K*
1 Ω	→	*1R0*			..... *RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

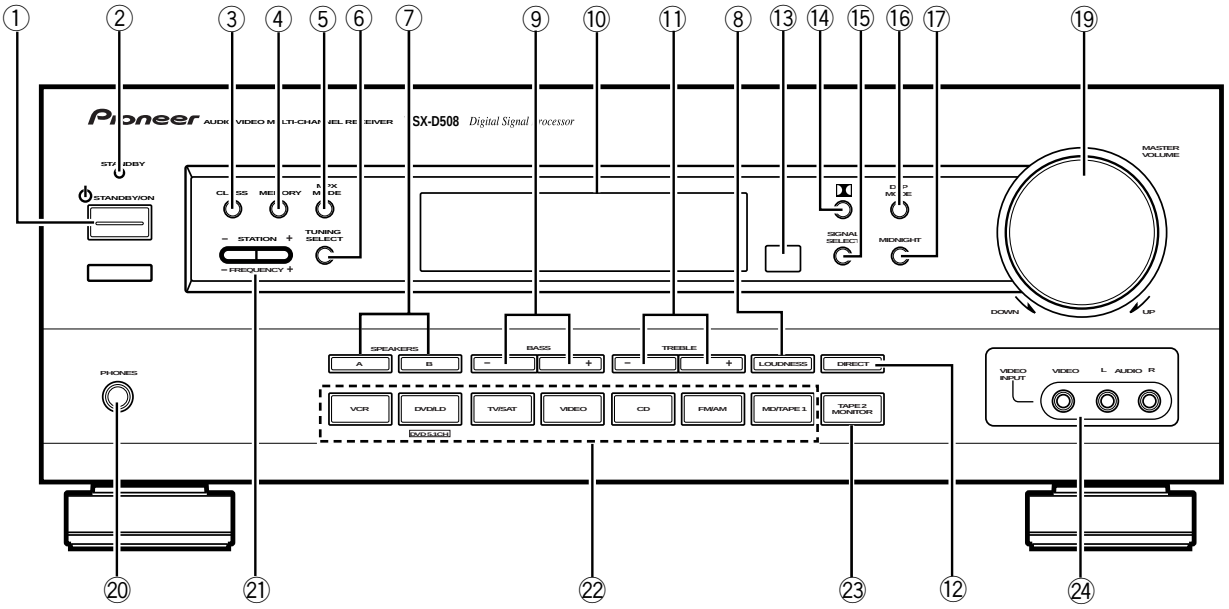
5.62k Ω	→	*562 × 10¹*	→	*5621*	..... *RN1/4PC 5 6 2 1 F*

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	IC1		AZC7282
	Q1		2SC3265
	Q2-Q4		RN4605
	D1		SE303A-C
	D2		RLS-73
	D9-D17		CL-230HR-CD
CAPACITORS			
	C2		CEAT470M10
	C1		CEAT221M6R3
	C3,C4		CEATR10M50
RESISTORS			
	R1		RS1/8S1R8J
	Other Resistors		RS1/10S□□□J
OTHERS			
	X1	CERAMIC RESONATOR (4MHz)	KBR-4.0M

8. PANEL FACILITIES AND SPECIFICATIONS

8.1 PANEL FACILITIES

■ Front Section



① ⏻ STANDBY/ON button

Press to switch the receiver on or put in standby.

② STANDBY indicator

Lights when the receiver is in standby mode. (Please note that this receiver consumes a small amount of power (2.5 W) during the standby mode.)

③ CLASS button

Press repeatedly to switch the preset station classes.

④ MEMORY button

Press to memorize a preset station.

⑤ MPX MODE button

Press to switch between auto stereo and monaural (“MONO”) reception of FM broadcasts. When the broadcast signal is weak, selecting “MONO” will improve the sound quality.

⑥ TUNING SELECT button

Press to switch between STATION and FREQUENCY.

⑦ SPEAKERS (A/B) buttons

Use to switch the corresponding speaker system on or off. To listen to both speaker systems (A and B), press the buttons so that both A and B appear in the display (refer to “Display” ⑬ Speaker indicators). Only A speakers are available when using surround sound modes.

⑧ LOUDNESS button

Switches the loudness on or off. Use to raise the level of the low and high frequencies so they can be more easily heard when listening at low volumes.

⑨ BASS (+/–) button

Press to adjust low frequencies in the range of ±6.

⑩ Display

⑪ TREBLE (+/–) button

Used to adjust high frequencies in the range of ±6.

⑫ DIRECT button

Switches direct playback on or off. Use to bypass the receiver’s tone control circuitry or level control for higher fidelity to the program source. When DIRECT is ON, Dolby, DSP, LOUDNESS and MIDNIGHT mode are automatically turned OFF.

⑬ Remote sensor

Point the remote control toward the remote sensor to operate the receiver.

⑭ DD button

Press to select the DD (Dolby) sound mode. This mode automatically switches between Dolby Digital and Dolby Pro Logic decoding according to the input signal.

⑮ SIGNAL SELECT button

Use to select input signals for the digital components. First press DVD/LD, TV/SAT, MD/TAPE 1, CD or VCR (㉒ Function buttons) to select the component, then press SIGNAL SELECT repeatedly to select one of the following:

ANALOG : Selects the analog (R and L) audio signals.
DIGITAL : Selects the digital audio signals. This receiver automatically detects and displays the format of the signal being input. AC-3 lights when Dolby Digital signals are input, and DTS lights when DTS signals are input. (AC-3 and DTS decoding is switched automatically.)

- SIGNAL SELECT is fixed in the “ANALOG” position for components not assigned to one of the three digital input jacks.
- Because the audio from a karaoke microphone and LD recorded with analog audio only is not output from the digital output, set SIGNAL SELECT to “ANALOG”.
- This receiver can only play back Dolby Digital and PCM (32kHz, 44kHz, and 48kHz) digital signal formats. With digital signal formats other than these, set SIGNAL SELECT to “ANALOG”.

⑯ DSP MODE button

Press repeatedly to select a DSP sound mode (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2). Use these modes to produce surround sound from standard (two channel) stereo sources.

⑰ MIDNIGHT button

Press to hear effective surround sound at low volume levels. The effect is automatically adjusted according to the volume level.

⑲ MASTER VOLUME

After turning on the desired component, rotate to adjust the volume.

⑳ PHONES jack

Connect headphones for private listening (the speakers turn off automatically).

㉑ STATION/FREQUENCY (+/–) button

STATION: Press to select the preset channel.
FREQUENCY: Press to select the frequency.

㉒ Function buttons

Selects the function. Each press switches the DVD/LD input between DVD/LD and DVD 5.1 channel.

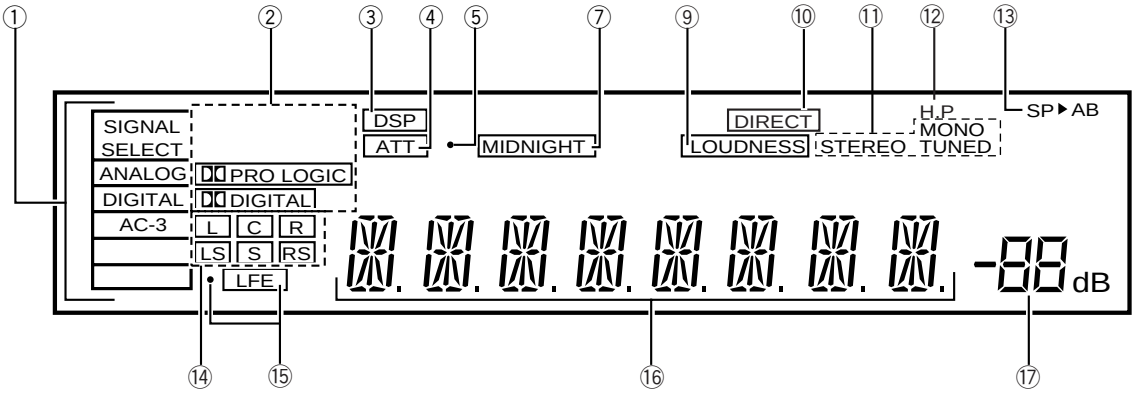
㉓ TAPE 2 MONITOR button

Switches the TAPE 2 monitor on or off.

㉔ VIDEO INPUT jacks

Connect a video camera, video game system, etc. to the VIDEO INPUT jacks.

■ Display



① SIGNAL SELECT indicators

Light to indicate the type of input signal selected for the current component (refer to “Front Panel” ⑮ SIGNAL SELECT).

ANALOG : Lights when the analog audio signals are selected.

DIGITAL : Lights when the digital audio signals are selected.

AC-3 : Lights when a source with Dolby Digital signals is played.

② Digital indicators

PRO LOGIC : When the Dolby mode on the reciever is on, this indicator lights during 2 channel playback of Dolby Digital sources.

DIGITAL : When the Dolby mode on the reciever is on, this indicator lights to indicate playback of a Dolby Digital signal. However, PRO LOGIC lights during 2 channel playback of Dolby Digital.

③ DSP mode indicator

Lights when the DSP mode is selected.

④ ATT indicator

Lights when ATT (refer to “Remote Control” ⑦ Number buttons) is used to reduce the level of the input signal. (Available in ANALOG mode only)

⑤ Overload indicator

When “ANALOG” is selected in SIGNAL SELECT, this indicator lights when an excessively strong signal is being processed . When this indicator lights, press ATT on the remote control to attenuate (lower) the signal and prevent distortion.

⑦ MIDNIGHT indicator

Lights when the MIDNIGHT mode is on.

⑨ LOUDNESS indicator

Lights when loudness is on (refer to “Front Panel” ⑧ LOUDNESS).

⑩ DIRECT indicator

Lights when direct playback is on (refer to “Front Panel” ⑫ DIRECT).

⑪ Tuner indicators

STEREO : Lights when an FM stereo broadcast is received in the auto stereo mode.

TUNED : Lights when a broadcast is received.

MONO : Lights when the tuner is set to receive FM broadcasts in monaural.

⑫ H.P indicator

Lights when headphones are plugged in.

⑬ Speaker indicators

Light to indicate the current speaker system (refer to “Front Panel” ⑦ SPEAKERS (A/B)).

SP ► A : Lights when speaker system A is selected.

SP ► B : Lights when speaker system B is selected.

⑭ Program format indicators

The following indicators light to show the channels being played back.

L : Left front*1*2, **C :** Center*1, **R :** Right front*1*2,
LS : Left surround*1,**S :** Surround (mono)*2,
RS : Right surround*1

*1: Indicates 5.1ch Dolby Digital playback.

*2: Indicates Dolby surround playback.

⑮ LFE indicator

LFE (Low Frequency Effects) indicator lights to indicate that the program source contains an LFE channel. The indicator to the left of LFE lights during actual playback of the LFE signals (LFE signals are not present in all parts of the sound track).

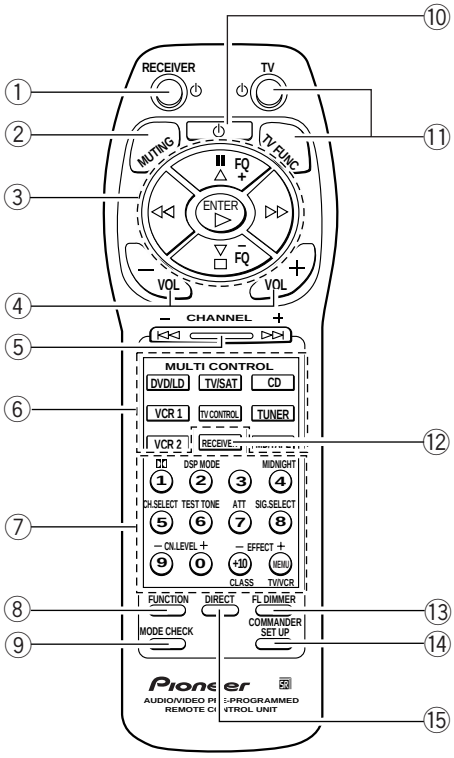
⑯ Character display

⑰ Volume level display

Displays the volume level. Volume level is maintained even when the power is off. ---dB indicates the minimum level, and 0dB indicates the maximum level.

- Depending on the level settings for individual channels, the MAX level can range between –10dB and 0dB.

■ Remote Control Unit



① RECEIVER button

Press to switch the receiver on or to put in standby.

② MUTING button

Press to mute the volume. “MUTING” appears in the display. Press again to cancel.

③ △/▽/◁/▷/ENTER buttons

Specific use of these buttons is described in conjunction with the operations they are used in.

ENTER : Press to switch the band (FM/AM) when using the tuner.

④ VOL (+/–) buttons

Press to adjust the volume. When VOL (+/–) buttons are pressed while muting, muting is canceled.

⑤ CHANNEL (+/–) button

Use to select preset stations when operating the tuner. When the remote is used to control other components, this button may be used to change channels, tracks, or chapters.

⑥ MULTI CONTROL buttons

Use these buttons to select the source and corresponding remote operation mode.

For example, pressing TUNER selects the built in tuner and sets the remote to operate the tuner functions.

⑦ Number buttons

These buttons can perform a variety of different functions depending on the remote operation mode.

• [RECEIVER operations (press RECEIVER first)]

Selects the DD (Dolby) mode.

DSP MODE : Press repeatedly to select a DSP sound mode.

MIDNIGHT : Press to hear surround sound effectively at low volumes.

CH.SELECT : Use to select a speaker when adjusting speaker levels.

TEST TONE : Press to switch the test tone on or off when listening to a surround mode.

ATT : Press to attenuate (lower) the level of the input signals and prevent distortion (refer to “Display” ⑤ Overload indicator).

SIG.SELECT : When the same component uses both analog and digital connections, use to select input signals as digital or analog.

CH.LEVEL (–/+) : Use to adjust individual speaker levels.

EFFECT (+/–) : Use to adjust the DSP mode effect level.

• [TUNER operations (press TUNER first)]

Number buttons (0~9) : During preset tuning, use to input the number of the preset station. Use to input the station frequency during direct tuning.

CLASS (+10) : Press repeatedly to switch the preset station classes during preset tuning.

MENU : Press to activate direct tuning.

⑧ FUNCTION button

Press repeatedly to select a source.

⑨ MODE CHECK button

Press to confirm the current remote operation mode and to switch operation modes without changing the source .

⑩ Power button

Press to turn on or put in standby all connected components other than this unit.

⑪ TV/TV FUNC button

Press TV to turn the TV’s power on or put in standby. Press TV FUNC to select the TV for remote control operation.

⑫ RECEIVER button

Press to select the receiver for remote control operation.

⑬ FL DIMMER button

Press to adjust the brightness of the fluorescent display. Four levels of brightness ranging from very dim to very bright can be selected.

⑭ COMMANDER SET UP button

Use to customize the remote control functions.

⑮ DIRECT button

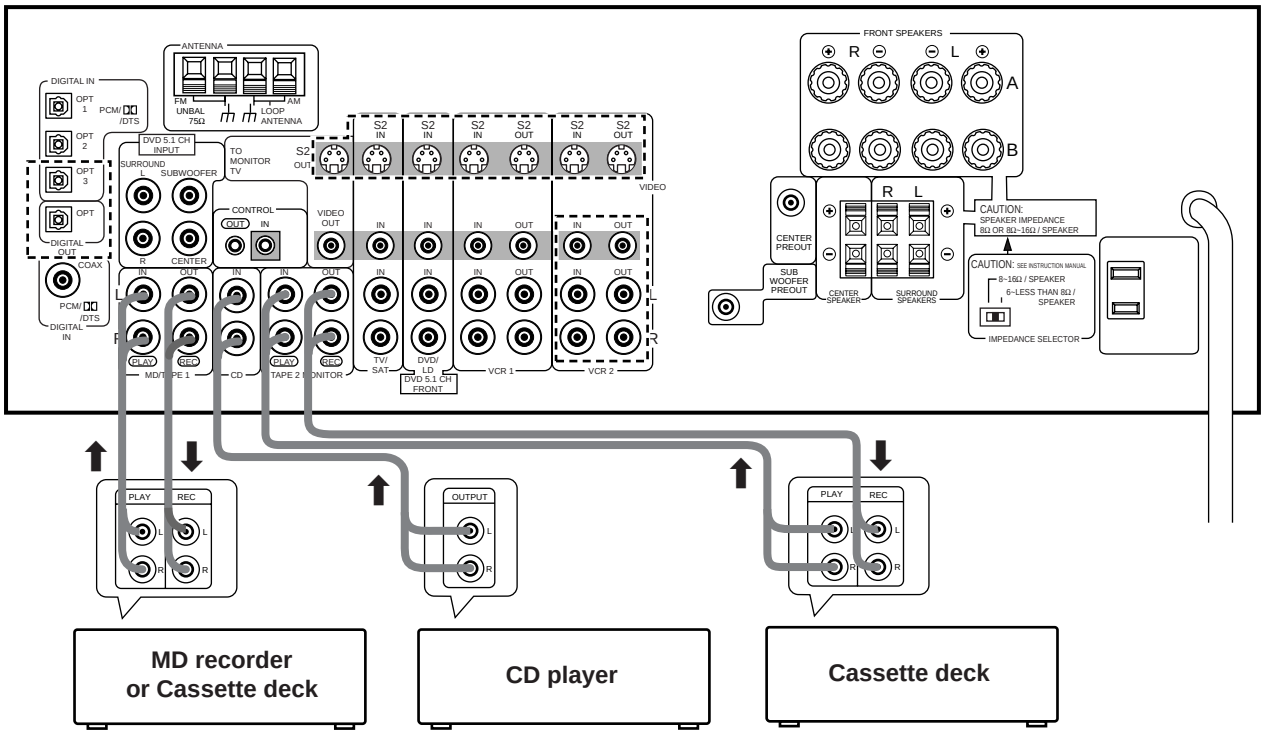
Use to playback original source audio. When DIRECT is ON, Dolby, DSP, LOUDNESS and MIDNIGHT mode are automatically turned OFF.

■ Audio Components Connections

Be sure to switch power to standby and remove the power cord from the wall outlet when you make or change connections.

Connect your audio components as shown below.

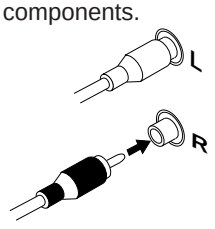
• Illustration shows VSX-D608.



*The arrows indicate the direction of the audio signal.

■ Audio cords

Use audio cords (not supplied) to connect the audio components.



Connect red plugs to R (right) and white plugs to L (left).
Be sure to insert completely.

Cassette Deck Installment

Depending on where the cassette deck is placed, noise may occur during playback of your cassette deck which is caused by leakage flux from the transformer in the receiver. If you experience noise, move the cassette deck farther away from the receiver.

8.2 SPECIFICATIONS

Amplifier Section

Continuous average power output of 100 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

* Measured pursuant to the Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifiers.

** Measured by Audio Spectrum Analyzer.

Continuous Power Output
- Front ..... 100 W + 100 W (1 kHz, 0.8 %, 8 Ω)
- Center ..... 100 W (1 kHz, 0.8 %, 8 Ω)
- Rear ..... 100 W + 100 W (1 kHz, 0.8 %, 8 Ω)

Input (Sensitivity/Impedance)
- VCR, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE, TAPE 2 ..... 200 mV/47 kΩ

Frequency Response
- VCR, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE, TAPE 2 ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB

Output (Level/Impedance)
- VCR REC, MD/TAPE REC, TAPE 2 REC ..... 200 mV/2.2 kΩ

Tone Control
- BASS ..... ± 6 dB (100 Hz)
- TREBLE ..... ± 6 dB (10 kHz)
- LOUDNESS ..... +7 dB/+6 dB (100 Hz/10 kHz)

Signal-to-Noise Ratio (IHF, short circuited, A network)
- VCR, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE, TAPE 2 ..... 97 dB

Signal-to-Noise Ratio [EIA, at 1 W (1 kHz)]
- VCR, DVD/LD, TV/SAT, VIDEO, CD, MD/TAPE, TAPE 2 ..... 80 dB

VIDEO Section

Input (Sensitivity/Impedance)
- VCR, DVD/LD, TV/SAT, VIDEO ..... 1 Vp-p/75 Ω

Output (Level/Impedance)
- VCR, MONITOR ..... 1 Vp-p/75 Ω

Frequency Response
- VCR, MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB

Signal-to-Noise Ratio ..... 55 dB

Cross Talk ..... 55 dB

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz

Usable Sensitivity ..... Mono: 13.2 dBf, IHF (1.3 µV/75 Ω)

50 dB Quieting Sensitivity ..... Mono: 20.2 dBf
Stereo: 38.6 dBf

Signal-to-Noise Ratio ..... Mono: 73 dB (at 85 dBf)
Stereo: 70 dB (at 85 dBf)

Distortion ..... Stereo: 0.5 % (1 kHz)

Alternate Channel Selectivity ..... 60 dB (400 kHz)

Stereo Separation ..... 40 dB (1 kHz)

Frequency Response ..... 30 Hz to 15 kHz (± 1) dB

Antenna Input ..... 75 Ω unbalanced

AM Tuner Section

Frequency Range ..... 531 kHz to 1,620 kHz (9 kHz step)
530 kHz to 1,700 kHz (10 kHz step)

Sensitivity (IHF, Loop antenna) ..... 350 µV/m

Selectivity ..... 25 dB

Signal-to-Noise Ratio ..... 50 dB

Antenna ..... Loop antenna

Miscellaneous

Power Requirement ..... AC 120 V, 60 Hz

Power Consumption ..... 280 W, 400 VA

Power Consumption in Standby mode ..... 2.5 W

AC Outlet
- SWITCHED ..... 100 W (0.8 A) MAX

Dimensions ..... 420 (W) × 158 (H) × 391 (D) mm
16-9/16 (W) × 6-1/4 (H) × 15-3/8 (D) in

Weight (without package) ..... 9.8 kg (21 lb 10 oz)

Furnished Parts

FM Antenna 1

AM Loop Antenna 1

Dry Cell Batteries (SIZE "AA" (IEC LR6)) 2

Remote Control Unit 1

Operating Instructions 1

Sub instruction manual [System Set up] 1

NOTE:

Specifications and the design are subject to possible modifications without notice, due to improvements.

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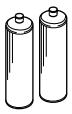
■ Accessories

FM wire antenna (ADH7004)

AM loop antenna (ATB7009)

Remote control unit (CU-VSX138 : AXD7178)



"AA" IEC LR6 batteries × 2